No. 1.
1a – 200a.
(No. 1 and following – see vol. 2.)

# Field Book

# of

# Willis L. Jepson

—years, index, p. 205.
—Collection Numbers.
See Index, p. 2A.

No. 1.

2

# Vacaville. 1888.

– Valley Oak. Pround aristocrat with lofty wide-spreading branches. The child born beneath its branches looks into its top as something very distant and mysterious; and who has such a jolly time as the Woodpecker, El Carpintero, beneath its branches? As the child grows, what inspiration these lofty arches above his head.

– Index to years; see p. 205. 2A.
– Index to A – Z numbers.


Nos. 1a to 25a, begin on p. 5.
" 26a to 30r, " " " p 10.
" 51a to 59j. " " " 17.
" 70a to 70e " " " 32.
" 100a to 100j " " " 40
" 125a to 125f " " " 68
" 175a to 179f " " " 100
" " " 152
" 29a to 32f " " " 25
" 40a to 40c " " " 30
" 80a to 80g " " " 49
" 50a to 50p. " " " 31
(Monardellas).

Nos. 1t to 72t. (Lupinus) ... 158
Nos. 1m to 74m. (Mimulus) .. 163
Nos. 1s to 43s, (Salix) .. 168.
Nos. 100p – 132p. (Potentilla) .. 172


– over –

The note at the bottom of this page was written some years ago. On account of the early collections being un-numbered collections, it was thought inadvisable to number them by putting them high in my regular numerical series. A plant collected in 1885, and numbered say 14,000, seemed unwise, since my first collectings, nearly, were in that year. Hence the attempt to use letters after the numbers 1 to 260. This device proved both awkward and insufficient — worse than using high numbers — so I set aside nos. 13,334 to 15,095 for numbering the early un-numbered collections. It turned now, seem likely that it will be necessary to set aside another block for them when the first block of them is used up. — Jan. 6, 1934.

— Up to the year 1899 I did not number my specs. Later it became necessary to number some of these early specimens. Hence the "a" and "s" series as indicated on previous page. The "a" nos. can run as high as 260 without conflict and s to z as high as 4000 (probably. with the regular nos. in Vol. 2.)



1891

One must travel far wide and many years to know all the trees of California. So many of the species of such restricted range, or even if widely distributed, occuring in only particular localities or situations. For this reason most people know very few of our trees. In the East the same trees are everywhere. A person in California might live all their lives and travel over the state for hundreds of miles, visit the metropolis, the Capital City, Mt. Shasta, Los Angeles or San Diego and never see or know the Redwood. —[1898]

# Yosemite Trip. 1890.

## Calaveras Co.

- San Andreas, Aug. 4, 1890.
- Washington Flat, Aug. 5. (see p. 9).
- Murphy's Camp.
- Calaveras Big Trees
- Snowdon Ranch, Aug. 7.
  (Within 3 mi. Calaveras Big Trees.)
  (below)
- Robinson Ferry

## Tuolumne Co.

- Sonora, Aug. 8
- Ward's Ferry

## Mariposa Co.

- Crockers August
- Yosemite "
- Hazel Green "
- Coulterville "



No. 1a. Juncus bufonius L.
Vacaville 1890.

No. 2a. ~~Juncoides campestre Ktze.~~ Luzula comosa E. Mey. group. Det. F.V.C.

No. 3a. Upper Coon Valley, 1 May. 1894.
Juncus xiphioides Mey. var. au-ratus Engelm. Suisun Marshes, Oct. 11, 1891.

No. 3b. Cuscuta subinclusa Dur. + Hilg.
Vacaville, 1891.

No. 3c. Cuscuta subinclusa Dur. + Hilg.
Vacaville, 1892.

No. 4a. Cuscuta subinclusa D. + H.
Gates Cañon, Vaca Mts. Aug. 1892.

No. 4c. Cuscuta subinclusa Dur + Hilg.
Weldon Cañon, Vaca Mts., Aug. 25, '87

No. 4d. Cuscuta subinclusa D. + H.
Alamo Creek, Vacaville Twp. Sept. 20, 1891.

No. 4e. Cuscuta subinclusa D. + H.
ne. Solano Co., Alamo Creek, Sept. 30, 1893.

No. 5a. Cuscuta salina typica Engelm ~~typica~~
Benicia, Aug. 28, 1891.

No. 5b. Cuscuta californica Choisy var. brachycalyx Yun. Uncle Sam Mt., July, 1892.

No. 5c. Cuscuta
Big Horse Mt., July - Aug, 1892
Lake Co.

## 1883

Apr. — Vaca Valley + Dunn's Peak.

## 1884 — Vacaville.

Mar. 3. — Main Prairie = cf. p. 29.
Mar. 10 — Cemetery Hill.
Mar. 12. — Mile Square Hill, Vanden. Land
Apr. 4 — Vacaville
Mar. 30. —
Mar. 23. — Fields east of Rocky Peak.
" 20 — "wet meadows" " " " "
Apr. 12. — Alamo (Aragnipa) Hills
May 10. — Vacaville Hills,* Dunn's Peak and Smith's Bluff.

*= English Hills.

May 31. — Little Oak, Vacaville
Mar. 16. — Chinn's field below Mr.
May 17. — Vacaville. Rocky ridge.
May 19. — Vacaville and Weldon Cañon.
May 22 — Aragnipa Hills.
May 28. — Aragnipa Hills.
May 19. — Weldon Cañon.
Feb. 27. — Vaca Valley.
Feb. 15. — Gale's Cañon ("Blue Mt"),
Apr. 18. — Chinn's Bluff.
Mar. 30. — Vacaville.
May 23. — Little Oak.
June 15 — Alamo Creek.



## 1884.

June 10. — Vacaville. May 5, Vacaville
May 12, "
Oct. 18. — Vacaville
Nov. 1. — College Yard, Vacaville.
May 1. — Putah Cañon, + Berryessa Valley (abt Clark's).
June 8. Alamo Creek
May 4. — Vacaville. (Coll. Collinsia bicolor).
June 10. — " (Mimulus luteus).

## 1885 — Vacaville.

Apr. 5. — Miller Cañon, Vaca Mts.
Mar. 5. — Alkali Flat, Little Oak.
Apr. 12. — Main Prairie, e. Solano Co.
Mar. 1. — Weldon Cañon ("Mixs").
Mar. 21 — Butcher Field, Vacaville Vaca mts.
Apr. 18. — Pigeon Point, near Vanden, and Vaudon.
— Wilson Creek, Vacaville
Mar. 10. — Cemetery Hill, Vacaville
May 8 — Haas Slough, near Main Prairie.
Apr. 1. Old College Yard.

## 1886.

Feb. 15. — University.
Apr. 24. — Strawberry Cañon. (also Mar. 15 and June 27)
June 16. — Cañon above North Berkeley.
July 21. Alamo Creek, Vacaville.

## 1887

Apr. 12. Moraga Valley, lower end.
Apr. 22 — Cañon above D. of D. + B. Institute. (Berkeley). cf. p. 55.
Sept. 3. — Weldon Cañon, Vaca Mts.
Aug. 25. — Weldon (Mixs) Cañon.
July 31. — Alkali Patch, Little Oak.
Sept. 12 — Weldon Cañon.
Sept. 17. — "Rio de los Putos" via Putah Creek (Solano Co.) Peaceful Glen Valley.
Sept. 22 — Ulatis Creek, Vacaville
Apr. 12. — Moraga Valley.
Sept. 3. — Weldon Cañon (with Philip Worsley. Pentstemon lemmonii in U.C. Hb., sheet 27,473).

## 1888

Sept. 12. — Rio de los Putos.

## 1889.

Apr. 15. — Little Oak, Vacaville.
— . — Cemetery Hill.
Dec. 20. — Gates Cañon, Vacaville.



## 1890.

Mar. 11.* — Yates Cañon, and trail to Signal Station**, Vaca Mt. See p. 136d.
Apr. . Rio de Los Putos. (Linanthus androsaceus)
Sept. . Suisun Marshes.
Aug. — Yosemite trip. See p. 4.
Nov. 29. Mt. Tamalpais.

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Yosemite Trip, 1890. See p. 4.

[— Washington Flat was one of my collecting stations. It is between Altaville and Murphys Camp on the "Grade Road", 3 mi. from Altaville. When, on this trip, we got into the foot hill towns, villages and placer diggings, I felt as in an enchanted land. Washington Flat was well remembered. With a team of horses and a wagon in which to travel, one could study and enjoy the country well. — Dec. 31, 1937.]
cf. Jesse M. Mayo, 5 Jan., 1938 in litt., who says about 1400 ft. alt.

** My scratch label with Plagiobothrys nothofulvus, no. 21,150, indicates I climbed to Signal Sta., Vaca mts., via Walker Cañon.

* On this date I also collected in Walker Cañon near Pine Peak, Vaca Mts. Cf. Mimulus Douglasii in hb. Check by other specs. — But cf. p. 15, sub May 17. No!! The Walker Cañon date is 1892!! See ** above.

(brachycalyx Yun.)

No. 5d. Cuscuta californica Choisy var.
Little Oak, Solano Co., Sept. 1892
↑ Vacaville,

No. 5e. Croton californicus Müll. Arg.
Mt. Lake, S. F., 20 Aug. 1891.

No. 5f. Amelanchier pallida Greene ~~alnifolia Nutt. var.~~ subintegra Jepson.
Berkeley, 18 May 1891.

No. 5g. Thysanocarpus elegans F. & M.
Mt. Diablo, 24 May, '91.

No. 5h. T. emarginatus greene. = T. Lasiniatus Nutt.
Mt. Diablo, May, '91.

No. 5i. Arabis blepharophylla H. & A.
San Bruno Hills, Apr. 4, 1891.

No. 5j. Dentaria integrifolia Nutt. = D. californica Nutt.
Mill Valley, 29 Mar. '91.

No. 5k. Raphanus sativus L. Vacaville, June 10, 1884.

No. 5l. See p. 158

No. 5m. See p. 163.



Weldon Cañon, Vaca Mts.

— Was a lovely place to botanize as a lad. It was utterly wild; no habitations down to the bottom. On May 19, 1884, I rode from Little Oak into Weldon Cañon. I saw and collected for the first time the Crimson Sage, Audibertia grandiflora. It was a wonderful sight and its aroma made a permanent impression on my senses. Just out of the foot of the cañon was the home of Senator L. W. Buck. His daughter, Emma Buck with a girl friend walked up the cañon for pleasure that afternoon, met me and had many questions to ask about my plants. I think it will be found by calculating backward that May 19, 1884 was a Sunday. —

W. L. J., 12-8-'37.

# Berkeley, Feb. 8, 1891.

Everything is backward this year. Not much rain and very cold north winds nearly all the while. Went up Strawberry Canon this afternoon with Blasdale. Found the first Lepidium in flower by the side of the path, L. latipes and also a small bit of Capsella bursa-pastoris. Chickweed is just bginning to flower in the same place. Pimpernel has been in flower for some time and mustard blossoms

Mar. 18. – Berkeley.
Mar. 29. – Mill Valley, Marin Co.
Mar. 22 – San Francisco.
Mar. 28. – Berkeley
Apr. 4 – San Bruno Hills



1891

Mar. 11.* Walker Canon, Vacaville.
Apr. 19. Feather River (Harding Ldg., Sutter Co.)
Apr. 20. – Marysville Buttes.
Apr. 25 – West Berkeley.
Apr. 26. – Berkeley.
May 2 – 6. – Little Oak, Solano Co.
May 10. – Alameda.
May 17. Livermore – (Arroyo Mocho). May 16. – Livermore (See p. 48 seq.).
May 18. – Berkeley
May 24 – Mt. Diablo
May 20. – Presidio, S.F. (See p. 154.
May 30. – Denverton, June 17. Pellejo Hills +
June 19 – Suisun Valley. June 1. Weldon Canon.
June 30. – Weldon Canon, Vaca Mts.
July 5. – H
July 7. – Gale Canon, Vaca Mts.
July 19. – Mill Valley, Marin Co.
July 20. – Tiburon.
July 31. – West Berkeley
Aug. 26. – Bay Farm Island + Alameda.
Aug. 20. – Pt. Lobos + Lobos Creek, S.F.
Aug. 28. – Benicia
Aug. 29. Tolenas Springs. Sept. 2. Alamo Creek.
Sept. 16 – New Town Ldg., + Rio Vista.
Sept. 17. – Grand Island + Ryer Isld.
Sept. 22 – Vanden, Brock Lane, + Point of the Pelero Hills, Solano Co.
Sept. 13. – Weldon Canon, Vaca Mts.
Sept. 21. – Miller Canon, Vaca Mts.

* see 136d seq.

1892

Jan. 16. — Mill Valley, Marin Co.
Feb. 1. — Yales Cañon, Vaca Mts.
Feb. 3. — Weldon Cañon and summit of the Vaca Mts.
Feb. 11. — Point Lobos, S.F.
Feb. 27. — San Bruno Hills, S.F.
Mar. 5. — Redwood Peak, Oakland Hills.
Mar. 12. — Lake Merced, S.F.
Mar. 10 — North Berkeley.
Mar. 19. — Red Rock, S.F. Bay.
Mar. 24. — Little Oak and Osage Cañon, Vacaville
Mar. 25. — Yates' Cañon, Collins Camp and summit - Vaca Mts.
Mar. 26. — Little Oak, Vacaville.
Apr. 5. — Ross Valley and Mt. Tamalpais.
Apr. 8. — Cabbage Patch
Apr. 9. — Smartsville.
Apr. 13. — Rough and Ready, Nevada Co. Deer Creek Ridge
Apr. 15 — Randolph Flat, Nevada Co.
Apr. 16. — Penn Valley, Nevada



1892

May 2 — Grizzly Peak, Berkeley.
May 8. — Siege and hills below San Pablo.
May 13 — Collinsville.
May 14. — Montezuma Hills, Bird's Ldg., Denverton, Cannon's Sta.
May 16. — Little Oak, Vacaville
May 17. — Walker Cañon * and Pine Peak, Vaca Mts.; n. fork.
June 11. — Summit of Mt. Tamalpais, up via Ross Sta., down via Mill Valley + Alto.
June 18. — Jack Robinson road, Cannon's Sta., and Cache School, Solano Co.
June 20. — Yales Cañon + Collins Camps, Vaca Mts.
July 9. — Hawkins Field, Vacaville
July 27. — Vacaville to Lake Co and return, circa Aug. 10.

Cont. p. 16. — Cont. p. 19. —

* This should be Dutton Cañon as the older name.

# Lake County, 1892.

Pleasant Valley, Putah Cañon and Berryessa Valley, July 27.
Zem-Zem, Knoxville Ridge, July 28
Lower Lake, = July 29.
Uncle Sam Mt. = July 30 = Mt. Konocti.
Kelseyville, Clear Lake, = July 31.
Scott Valley, Blue Lakes = Aug. 1
Saratoga Spr., Bachelor Valley 3.
Middle Creek, Elk Mt.* = Aug. 2.
Horse Mt., = Aug. 3. Hullville, =
Aug. 4. South Fork Eel River = (Foundry Valley) (Hullville)
Aug. 5. Blue Lakes.
Aug. 6. Ukiah
Aug. 8. Knights Valley
Aug. 9. Napa Valley.

* Some of the plants on Elk Mt. were collected at Tonis Mill.



# July 27 - Aug. 6, 1892.

No. 26a. Carex comosa Boott. Det. K.K.M. Blue Lakes.

No. 26b. Carex comosa Boott. Det. K.K.M. Blue Lakes.

No. 26c. Thysanocarpus curvipes Hook. Graveyard Hill, Vacaville, Mar. 10, '85

No. 26d. ditto. Gates Cañon, Vaca Mts., 25 Mar. '92.

No. 27d. ditto. Calistoga, May 1, 1893.

No. 28d. ditto. Livermore, May 16-17, 1891.

No. 29d. ditto. mts. w. of St. Helena, 25 Apr. 1893.

No. 30d. ditto. mts. e. of Napa Valley, near Mt. George, 28 Apr. 1893

No. 30e. ditto. Hills e. of St. Helena, 24 Apr. 1893.

No. 30f. ditto. St. Helena, 2 May '97.

No. 30g. Thysanocarpus curvipes var. elegans Torr. Stivers Ranch, Tehama Co., 25 Apr., 1899.

No. 30h. Thysanocarpus radians Bth., 27 Apr. 1885. Vacaville.

No. 30i. ditto. Penn Valley, Apr. 16, 1892. Nevada Co.

No. 30j. Thysanocarpus curvipes var. elegans T. & M. Walker Cañon, = T. californica Vaca Mts., 5/17/92.

No. 30K. Dentaria integrifolia Nutt. var. californica. Rose Valley, 5 Apr. 92.

No. 30n. T. radians Bth. Mt. George. 28 Apr. 1893.

No. 30p. Minardella villosa Bth. var. subsessilis (Greene). Big Horse Mt., Lake Co., Aug. '92.

1892.

Ukiah, Aug. 6;
Russian River, Aug. 7.
Knights Valley, Aug. 8.
Napa Valley. Aug. 9.

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~~No. 30q. Phacelia californica Cham. var. Mucle Sam Mt., Lake Co., July 1892.~~
No. 30r. Lagophylla ramosissima var. congesta Jepson. Gravelly Valley, Hullville, Aug. 4, 1892.



1892

– Lake Co. trip see p. 16.

Aug. 12. — Alkali Flat, Little Oak.
Aug. 15. – Pelevo Hills and Suisun Marble Quarry. Alkali Flat.
Aug. 17. – Summit of the Vaca Mts. via Collins Camp.
Aug. 16. – Suisun Marshes.
Sept. 24. – Strawberry Cañon, Berkeley.
Sept. 26. – California st. terminus, S.F.
Sept. 9. – Mt. Tamalpais via Ross Valley and Alto.
Oct. 3. – Brock Lane, Vacaville.
Oct. 22. – St. Helena.

# Olema, Apr. 1-2, 1893.

— Trip with Professor Greene. Stopped at the Olema Hotel where they served bountiful and most excellently cooked meals for .25c (!) and good clean beds the same price (!). Walked towards Bear Valley and also along the west shore of Tomales Bay northerly where we collected Sambucus callicarpa Greene in flower and various Ribes. Went on to the headlands which come down to the shore and are covered with open groves of Pinus muricata where I had my first acquaintance with this fine species.



## 1893

Mar. 13. St. Helena and slopes of Howell Mt.

Apr. 24. Hills east of St. Helena (Park Hill & Upper Conn Valley Road).

Apr. 25. Summit of Hoods Peak Range at Caux's Cabin (West of St. Helena).

Apr. 26. Rutherford, Oakville, La Loma.

Apr. 27. Yountville; hills near Veteran's Home. Oak Knoll and Napa and sw. of Napa.

Apr. 28. Napa City, Wooden Valley grade and plateau near (s. of) & gorge of Tranchas Creek. = Milliken Creek of U.S. top. map.

Apr. 29. Parrott's Place at St. Helena & St. H. Reservoirs; York Creek.

Apr. 30. Calistoga

May 1. Knight's Valley Road, across to Franz Valley grade.

May 2. Salt Marsh near Calistoga, summit of Pope Valley grade & the Palisades.

May 3. Grade to Mt. St. Helena Tollhouse and to Mt. St. Helena.

# 1893

May 4. Mt. St. Helena summit.
May 5. Middleton grade to Borders of Lake Co.
May 6. Calistoga
May 8. Howell Mt., Angwin's and "Below New Eden" & La Jota Falls.
May 9. Chiles Creek + Niebaum's Dam.
June 5. Vacaville (racetrack) + Napa Valley. + Wilson's Creek.
June 8. Vanden, Pellejo Hills.
June 12. Yates Cañon + Collins Camp; Vaca Mts.
June 13. Vacaville (Little Oak, alkali field).
June 15. Vaca Mts. (Yates Cañon, Davis Hills, Alpine School.)
June 20. Main Prairie + Hass Slough
June 23. Napa City.
June 24. Napa Soda Springs (via Wooden Valley road in part).
June 26. Howell Mt., Angwin's and Crystal Springs
June 29. St. Helena.
Aug. 25. Mountain Lake, S.F.





Sept. 19. Little Oak at Vacaville
Sept. 20 " " " "
Sept. 21. Wooden Valley, Berryessa grade to Napa Valley.
Sept. 22. Napa City, Yountville, La Loma.
Sept. 23. Upper Napa Valley, Calistoga, grade to Tollhouse and summit of Mt. St. Helena.
Sept. 24. Howell Mt., Angwin's etc.
Sept. 25. Lower Napa Valley, Suscol Hills; Cordelia quarry.
Sept. 26. Little Oak, Vacaville
Sept. 28. Lagoon Valley
Sept. 30. Wilson Creek, Vacaville
Oct. 2. Little Oak.
Oct. 3. Benicia
Oct. 4. Tyler Island, Walnut Grove + Miller's Ferry.
Oct. 5. Andrus Isld., Knott's Ldg., Walnut Grove and Old River. On this

trip I went by Sacramento River steamer. Probably I got off at Walnut Grove. Then I went down to Andrus Island Sacramento Co. and stopped at the Knott place (ranch) over one night. This ranch was owned by G. A. Knott, that is Judge Knott since he was Justice of the Peace. From Judge Knott I had some observations about the luxuriant native plants in river bottoms and along the levees. Knotts Landing, for the river steamers, faces on Old River; the ranch runs east and borders at the back on Georgiana Slough. Knotts Landing is on Andrus Island. — Note made Nov. 30, 1937. Miller's Ferry is over the West Fork of the Mokelumne River, acc. to an old label (Stachys albens). There is no West Fork Mokelumne River on maps nowadays; but [Cont. p. 35]



No. 29 a. Juncus bolanderi Engelm.*
Det. F. V. C. Lower Sacramento River. 1893 Oct.
Perianth and infl. are quite different from the J. Bolanderi of the coast. I do not understand Covillis det. - W. L. J.
No.

No. 30a. Juncus oxymeris Engelm.
Det. E. V. F.

No. 31a. Amelanchier alnifolia Nutt.
Middleton grade from Mt. St. Helena, near Lake Co. line. 5 May 1893.

No. 32a. Amelanchier ~~alnifolia Nutt.~~ pallida Greene var. subintegra Jepson. Howell Mt. grade, 8 May '93.

No. 32b. " " " "

No. 32c. Arabis glabra Bernh. St. Helena, Apr. 24, 1893.

No. 32d. Dentaria integrifolia Nutt. var. calif. = D. californica Nutt. Knights Valley grade, 1 May '93.

No. 32e. ~~ditto~~ " St. Helena, 13 Mar. '93.

No. 32f. Monardella viridis Jepson. Mt. St Helena. 1893

* Formerly numbered 26a.

## 1894

Jan. 2. – Rocky Peak, Vacaville.
Jan. 3. – Aragnipa Hills, Vacaville.
Jan. 8. – St. Helena.
Mar. 13. – Strawberry Canon, Berkeley.
May 1. – St. Helena.
May 23. – June 1. – Little Oak, Mile Square Field, Solano Co.
July 19. – Calistoga, upper Napa Valley, Toll House and first summit of Mt. St. Helena
July 20. – St. Helena.
July 24. – Aug. 10. Upper Sacramento River region.
July 24 – Aug 8. Sisson, Mun Peak, Upton.
Aug. 4. – Summit of Mt. Shasta, Horse Camp. Cedar Spr.
Aug. 9. – Shasta Spgs., Siskiyou Co. Horseshoe Bend*: I think this must be a loop in rr. and not in the Sac. River.
Aug. 10. – Sims sta., Shasta Co.
Aug. 11. Little Oak, Solano Co.
Aug. 25. West Berkeley.
Sept. 7. Arnicias gorge e of Bald Peak, Berkeley Hills.

* = loop in rr. near Shasta Spgs.



Oct. 1. – Redwood Peak and Moraga Valley.
Oct. Alameda.
Oct. 13. – St. Helena, Conn Valley.
Oct. 14. – Rebecca Ranch sw. of Calistoga.
Oct. 26. – Strawberry Canon, Berkeley.
Nov. 2 & 3. – Little Oak.
Nov. 5. – St. Helena, Bottle Mt., & Rural Health Retreat.
Nov. 6. "Lonely" and Calistoga.
Nov. 7. Napa and Insane Asylum.
Sept. – Adeline sta., Berkeley.
Oct. – Mountain Lake, S. F.
Dec. 30. – Little Oak.

## 1895

Feb. 19-27. Berkeley to Ithaca.
July. New York and Washington.
Aug. Toronto to San Francisco.
Aug. 30. St. Helena to Calistoga and Petrified Forest.
Sept. 7. Grizzly Peak and San Pablo Creek.
Sept. 14. Walnut Creek and Lafayette.
Nov. 2. St. Helena, Howell Mt.
Nov. 26-27. Howell Mt. and La Jota Falls.
Dec. 24-28. St. Helena, hills east.

## Vaca Mountains – 1893.

This ridge with its easterly subordinate chain has been subject to periodic fire ravage for many centuries. The chaparral formation has steadily increased its area at the expense of the open woodland (Quercus wislizenii – douglasii – Pinus sabiniana association).

To what extent is the above true in the light of recent years?

---

### 1896

Jan. . North Berkeley and San Pablo creek road.
Feb. 16. Ross Valley, Tamalpais and Mill Valley.
Feb. 22-23. Howell Mtn.
Mar. 7. Strawberry Cañon, Berkeley.
Mar. 16. Little Oak, Vanden.
Mar. 23. Mt. Tamalpais (Bot. 3 excursion)
Mar. 28. North Berkeley, North Berkeley Reservoir.
Mar. 27. Strawberry Canon, Berkeley, and University Hill.
Mar. 11. Claremont via College Ave. and Lake Temescal.



### 1896

Apr. 11. Berkeley.
May 15. Little Oak, Vacaville.
May 26. Berkeley to San Jose and return.
May. 31. North Berkeley Reservoir at Gum Tree Grove, Rocky Point and Wild-cat Creeks.
June 2. St. Helena, Conn crossridge at mouth of Conn Valley.
June 7. Alvarado.
June 8. Centerville, Irvington, Warm Springs
June 9. Coyote Creek; Morgan Hill.
June 10. Gilroy
June 11. Hollister
June 12. Pacheco Pass (w. side.)
June 16. Gilroy to Corallitos over Santa Cruz mts.
June 18-22. Soquel Creek.
June 22. Wrights, Santa Cruz mts.
June 23. Forest Grove (= Eva sta.). Santa Cruz mts.
June 24. San Jose and Milpitas.
June 25. Niles Cañon, Mission San Jose, Vallecitos.
June 26. Livermore
June 27. Mass Ferry, San Joaquin River, to Atlanta (Moorsdale School), and Burnett sta.

28b

1896.

June 28. Oakdale.
July 1. Across country to La Grange.
July 2. Coulterville

Harvard trip. See p. 58.



Cont. from p. 6. Main Prairie. Since this date falls on a Monday, according to the World Almanac, I wonder how I could have been at Main Prairie and not at school. It may be that I was collecting when returning from a trip to Rio Vista or Morning Light whither I had taken with my sister Mary to her school. It was really on the basis of my Main Prairie plant, no. 14,590, that E. L. Greene published his Dodecatheon patulum.

tenuis Willd.
No. 40a. Juncus occidentalis (Coville) det. H.V.C.
[Wiegand
Upper Coon Valley, 1 May 94

= J. tenuis var. congesta
No. 40b. Juncus occidentalis var. conges
Mts. Upper Coon Valley.

villosa ssp.
No. 40c. Monardella sheltonii Torr. Washington flat, near Calaveras Big Trees. = M. villosa Bth., var. glabella Gray.
No. 40d.



## Monardellas

No. 50a. Monardella odoratissima Bth. ssp. glauca
Bear Valley, Nevada Co., July 1898.

No. 50b. Monardella odoratissima Bth. ssp. pallida
Mt. Shasta. 1894.

No. 50c. Monardella odoratissima Bth. ssp. glauca
Sisson. 1894.

No. 50d. Monardella odoratissima Bth. ssp. pallida
Bear Valley, Nevada Co. July, '98.

No. 50e. Monardella leucocephala Gray.
cf. p. 88 seq; also ↑ (48:134.) Below Lagrange. 15 July '96.

No. 50f. Monardella lanceolata Gray.
Summit Ranch, Calaveras Co. 1890.

No. 50g. Monardella lanceolata Gray.
Sims. Upper Sac. River, Aug. '94.

No. 50h. Monardella lanceolata Gray
Summit Ranch, Calaveras Co. 1890.

No. 50i. Monardella lanceolata Gray
Washington Flat, Calaveras Co. 1890.

No. 50j. Monardella douglasii Bth.
Gilroy. 1896.

No. 50k. Monardella villosa Bth. var. subserrata (Greene).
Hemlock, Blue Lakes - Ukiah grade. 1897.

No. 50l. Monardella villosa Bth. var. interior Jepson.
(formerly 50l.) Vaca Mts., 1 June 1891.

No. 50p. Monardella villosa Bth. var. subserrata (Greene).
(formerly 50m). Howell Mt., 26 June '93.

## Sisson { July 24 to Aug. 8 / Mt. Shasta, Aug. 4. Sharta Spr., " 9. }

Siskiyou Co.

No. 51a. Carex densa Bailey. Det. K.K.M.

No. 52a. Carex multicaulis Bailey. Det. K.K.M.

No. 53a. Carex feta Bailey. Det. K.K.M.

This sheet had no mark on it and it may not be from this region, but probably Mt. Shasta.

No. 54a. Carex Bolanderi Olney. Det. K.K.M.

Cedar Spring, Mt. Shasta.

No. 55a. Carex sitchensis Prescott. Det. K.K.M. agastalis Wahl.

Sisson.

No. 56a. Carex stipata Muhl. Det. K.K.M.

Sisson

No. 57a. Carex barbarae Dewey, Det. K.K.M.

Sisson.

No. 58a. Eleocharis palustris R.Br.

Sisson

No. 59a. Amelanchier alnifolia Nutt.

Sisson. July 1894.

No. 59b. Arabis platysperma Gray.

Horse Camp, Mt. Shasta, 4 Aug. '94.

No. 59c. A. holboellii Hornem. var. fendleri Wats. Upton. July, 1894.

= A. rectissima Greene.



## Sisson. July 24 - Aug. 8, 1894.

No. 59d. Arabis glabra Weinman.

Sisson, July, 1894.

No. 59e. Brassica nigra (L.) Koch ~~arvensis B.S.P.~~ Napa, Nov. 1894.

No. 59f. Navardella odoratissima Bth. ~~var. ovata (Greene).~~ ssp. pallida Mt. Shasta, Aug. '94.

No. 59g. Navardella villosa Bth.

Glen Echo, Santa Cruz Co., June 17, 1896.

No. 59h. Navardella villosa Bth.

Harrison Cañon, Niles, 20 June 1897.

No. 59i. Chrysopsis shastensis Jepson. Aug. 4, 1894.

No. 59j. Calycadenia ciliosa Greene. Sisson sta., Aug. 10, 1894.

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### Stachys bullata Bth.

When Professor Greene returned from Kew he said: "Stachys bullata Bth. has not been collected since it was first obtained by the people of Beechey's Voyage. It has a very dense spike and its leaves are very bullate-rugose. The plant about Berkeley which we have been calling Stachys bullata is Stachys californica Bth." — Spoken to W.L. Jepson by Professor E.L. Greene in 1894.

– My first paper prepared for printing was "The Botany of the Marysville Buttes". My obligations to Professor E. L. Greene in regard to this were great. He encouraged me; gave me critical help and advice. When I had made the paper ready to send to the Bulletin of the Torrey Botanical Club, Professor Greene looked it over and remarked that it was too neat, the people at New York would remark our superiority or pedantic preciseness. So I dutifully "mussed it up" a bit. This incident puzzled me afterward. The real state of affairs was this, I suspect. The paper had a labored perhaps somewhat raw schoolboy kind of [super-] neatness; and he wished to hide this a little.



(Cont. from p. 24.) the North Fork is actually West Fork as the two forks lie near the main river. When I walked from Walnut Grove to Andrus Island (on which is the Knoll place) I had to pass over Georgiana Slough. It would seem as if this might have been "Miller Ferry". At any rate Miller Ferry must be near Walnut Grove.

(Dec. 16, 1937).

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## Erythea.

We pondered a bit over the naming of the journal, after the first discussion that there should be a journal of botany for Western America. One day I brought in a leaf and the huge inflorescence of Erythea edulis from the Palm Grove. In that day in a tiny hollow alongside Blackberry Creek just above the old greenhouses there was a grove of palms: Washingtonia filifera, Erythea

edulis, and one or two other horticultural favorites. Also some individuals of the palm-like Dracaena draco. It was, with an array of rare Australian trees, a choice little spot; and I often went to visit it. This day I brought back samples of Erythea edulis, the palm native to Baja California. When Professor Greene saw the specimens lying on a laboratory table, he exclaimed: "The name shall be Erythea." Thus was the journal christened.



(Cont. from bottom p. 38.)

Mountains there is mahogany (Cercocarpus parvifolius), Garrya and at least two manzanitas. One has a good many short erect stems and they come from a curious stump at the ground. The stump is 2 or 3 feet high. These stems are stump sprouts. There has been no lack of fires in these mountains. I call this manzanita, Arctostaphylos tomentosa A. manzanita is here, but only a little of it. It does not sprout after fires. Gates Canon, – Mar. 25, 1892. Vacaville.

## Chaparral.

- A veritable Bohemia of plants, exclusive (by reason of the physical conditions), independent, extending welcome to more save those that have its armorial bearings (the structures for water conservation or at least restriction of transpiration), - all these are welcome to Bohemia, if they can hide to large degree the kinship of the families to which they belong and become outcasts of the chaparral.

It sometimes is to be noticed that Manzanitas if found alone are gregarious, as if with other plants, then in company with larger trees. One rarely finds springs in chaparral country. In the Vaca



- Oakland Hills. With Walter Powell.

- Hardy, Mrs. M. M., worked in the herbarium for Professor Greene, about 1893. She collected a set of plants for him in Placer Co. in 1893. She was one of a number of persons who collected at University expense in the years just preceding his departure East in order to make up as large an herbarium to take along as possible.* Mrs. Hardy's handwriting is seen on label of Lupinus grayi Wats. her collection. Mrs. Hardy's daughter married Warren Gregory, grad. U. C. and lawyer.

- July 19, 1894, Calistoga, upper Napa Valley, that is the valley above Calistoga, Toll-house and 1st Summit of Mt. St. Helena.

- July 20, 1894. St. Helena.

* That is he carried away the duplicates. I am sure, however, that the original set was not complete. The state of Cal. set (Cal. Geol. Survey) was far from complete.

## Napa Valley

– Sparganium californicum Greene. Calistoga. See Bull. Cal. Acad. 1; 11.

– Euphorbia serpyllifolia. l.c. 56a. Napa valley.

– Rubus vitifolius : Greene, at Napa Junction, 1874.

– Ceanothus cuneatus var. ramulosus. To be looked up. Shrubs right at Chabot's gate. Battle Mt., north side.

No. 70a. Cuscuta subinclusa D. & H. St. Helena. Oct. 1894.

No. 70b. Cuscuta subinclusa Dur. & Hilg. St. Helena. Nov. 5, 1894.

No. 70c. Cuscuta Coon Valley, Oct. 13, 14 – 1894.

No. 70d. Monardella viridis Jepson. Upper Coon Valley, 13 Oct. 1894.

No. 70e. " " " " " "



– Sclerostegia pilosa. Calyx bracts, only one persistent until after dehiscence of capsule.* – Rebecca Ranch Grade.

– Ceanothus Parryi, in fl., fruit with 3 warts.

– Aralia californica. Leaves decompound, 44 inches long + 48 in. wide at least. Single leaflet 10 x 14 inches. Proper panicle about 32 in.

* This calyx lobe which persists is the lower. Now, the capsule is obcompressed. That is the valve sutures are opposite the (upper & lower) calyx lobes. Now as the valves of the capsule turn from each other at apex they open most down the side bounded by the bract or rather lower calyx-lobe which is bract-like — altho' the calyx bounds that side at base.

St. Helena, Lovely &

- Ricinus communis. Bottle nut
- Sugar Pine on grade to Sanitarium.

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St, Helena, Mar. 13, 1893

- Brodiaea capitata
- Rhus diversiloba
- Stellaria media
- Senecio vulgaris
- Oenotherā ovatā
- Sanicula bipinnatifida
- Cardamine oligosperma
- Amelanchier alnifolia
- Tillaea minima
- Montia fontana
- Amelanchier arvensis
- Hypericum concinnum
- Sanicula menziesii
- Arbutus menziesii
- Aesculus californica
- Rosa "
- Vitis "
- Omercus lobatā. Cont next p



Napa. Nov. 4, 5, 6, 7. 1894

Below Napa Asylum.

- Frankenia grandifolia
- Jaumea carnosa
- Distichlis spicatā
- Capsella bursa-pastoris in fl.
- Achillaea millefolium in fl.
- Baccharis douglasii
- Cressa cretica
- Cotula coronopifolia, in fl.
- Salicornia ambigua.

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Cont. from bottom prev. p. 42.

- Erodium moschatum and cicutarium.
- Lepidium nitidum.
- Medicago denticulatā
- Ranunculus bloomeri
- Saxifraga californica.
- Rubus vitifolius.

Sisson. Cal

– Ceanothus velutinus



1894.

Shasta Springs, Aug. 9.

– Ceanothus integerrimus

– Pinus Jeffreyi. San Pedro Martir Brandegee, May 20. 1893. Cots 12, 13.

## Trip to Howell Mt.

Nov. 23, 1895.

– Polygonum Polanderi. La Jolla

– Xerophyllum tenax Nutt. Said by the people at New Eden on Howell Mt. to fruit only once in seven years. Pleasant!



## Berkeley.

– Lupinus eminens Greene. Type in U.C. Herb. From Santa Inez Mts., G.W. Dunn, June 7, 1891.

– Lupinus fallax Greene. Type in U.C. Herb., taken from type plant in U.C. Bot. Garden, the plant itself brought from Mt. Tamalpais by W.L. Jepson.

– Lupinus Tidestromii Greene, Erythea, 3:17 (1895), type in Univ. Cal. Herb., collected at Pacific Grove by Ivar Tidestrom, June 6, 1893. Separated from L. littoralis Dougl.

Plants collected 1896.

– Sueada torreyana. Vahr.
Altamont and Mt. Horse

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Trip to the Arroyo Mocho, May 17, 1891.

Went by train to Livermore. Walked south the next morning after a night in the hotel. Reached the Arroyo Mocho, botanized all day. Collected the composite described as new by Professor E. L. Greene under the name Eriophyllum jepsonii. As evening came on I found that none of the little settlers were willing to take me as a guest. I finally persuaded the young woman in one cabin to give me a supper (for which of course I paid) and then after much pleading got a bed at another cabin. On my (Cont p. 49)



No. 80 a. Cuscuta
Yosemite, July 7-12, 1896.

No. 80 b. Thysanocarpus curvipes Hook. var. longistylus Jepson.
Yosemite, July 7-12, 1896.

No. 80 c. Thysanocarpus emarginatus Greene. Morgan Hill. June 9, 1896.
= T. laciniatus Nutt.

No. 80 d. Dentaria integrifolia Nutt. 16 Feb. 1896. Ross Valley.
= D. californica Nutt.

No. 80 e. ditto. Olema. 28 Mar. 1897.

No. 80 f. D. californica Nutt. " " " Olema.
(shade form)

No. 80 g. Brassica sinapistrum Boiss.
= B. kaber var. pinnatifida Wheeler
Berkeley, 31 May 1896. ~~= Brassica sinapistrum~~

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Cont from p. 48. earliest trips I tried to live off the country side so to speak. I soon learned better — after semi-starvation.

## Trip to Cornell University

Feb. 19. 1895. Left Berkeley for Vacaville
Feb. 27, 1895. Arrived at Ithaca, N.Y.
July. 1895. New York and Washington.
Aug. 1895. Washington to Toronto to Vancouver to San Francisco.

— A brief account of my stay at Cornell is in Men & Manners, vol. 6, p. 150 (my private journal).

— A brief reminiscence of my trip to Columbia College from Cornell is in Men & Manners, vol. 7, p. 82. It was at this time, while at Columbia College, I met John K. Small for the first time. One of the topics he brought up was the emancipation of J.H. Rose by J. M. Coulter. These two were co-authors. Small said he had suggested to Coulter that Rose's enslavement should end but Coulter quietly replied that it were better to keep up the old association. Rose, it was thought, did all the work.



## 1896

- Pacheco Pass, Plane trees leaves now falling, June 6, along the stream near entrance to Pacheco Pass. The leaves color more or less, the lobes curl up, and then they fall, with the concave side up, the convex side down, striking the water and sailing along like a boat or strikingly like a gondola in some cases.

## Berkeley, plants collected.

– Microcala quadrangularis Griseb.
Boulder country northwest of North Berkeley (station), Apr. 15, 1896. = the present Thousand Oaks district. The afternoon I found them, the flowers were closed. The species is common here.



1896.

– Quercus densiflora. Pope valley road, just beyond divide from Angwin's, Feb. 23, 1896.

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## Berkeley Hills.

– Quercus agrifolia in tree form. Q. wislizenii in scrub form near Sugar Loaf Peak. The limit line between these two species if worked out and mapp-drawn on a sheet of the Coast Ranges would be highly interesting.

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## Aug. 8, 1896

Pacific Grove and Point Lobos.

## Aug. 10, 1896

Monterey, Carmel mission, Carmel River, Pt. Lobos, Cypress Pt.

Carmel Mission & Monterey

- Abronia umbellata, stems prostrate but each leaf erect and vertical strictly!
- Centaurea Melitensis
- Plantago Asiatica (fleshy narrow-leaved species).
- Artemisia pycnocephala
- Acaena trifida
- Sea Kale on seashore.



August 10, 1896.

made a hasty study of Monterey Cypress.

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Numbering specimens: I began to number my collections in 1887. See slip with Linanthus androsaceus, Berkeley Hills, "Apr. 22, 1887, no. 13". Apparently no record list is now available; it was not preserved.

# Monterey

- Chenopodium murale
- Daucus carota in fl.
- Foeniculum vulgare (Gaertn.) in fl.
- Polygonum aviculare
- Navarretia squarrosa H. & A.
- Anthemis cotula
- Verbena prostrata
- Heracleum lanatum Michx.
- Rhamnus Californica
- Baccharis viminea
- Milk Thistle
- Lavatera assurgentiflora



# Aug. 10. 1896

## Carmel River

- Populus trichocarpa
- Platanus racemosa
- Clematis ligusticifolia
- Distegia Ledebourii
- Mimulus cardinalis
- Artemisia biennis 6½ ft. h.!
- Cnicus edulis, 5' ft. h.!
- Helenium puberulum, 5½ ft. h.
- Cornus pubescens
- Plantago ovata
- Rumex maritimus
- Mentha Canadensis
- Baccharis Douglasii
- Anagallis arvensis
- Rumex maritimus!
- Rosa Californica
- Scrophularia Californica C. & S.

This matter, pp. 58–66, should have followed p. 89.

# Harvard Trip, 1896

- Aug. 21, Little Oak
- " 22, Little Oak.
- " 23, Vacaville
- " 24, Elmira to Reno.
- " 25 Reno.

Botanized along the Truckee River and the next day went with Hillman, botanist at the Nevada State University to Dog Valley, just over the California state line. Aug. 26. Aug. 27 Tecoma, Terrace = Eastern Nevada.

- August 28, Salt Lake City.

Botanized about Fort Douglas. Called on Jones but he was not in. He called at my hotel. Said that he was soon to be independently rich from the revenue of his mine and would then devote all his time



# Salt Lake, Aug. 28-29, 1896.

to botany, Jones is about 5 ft. 6 in., full beard, blue eye, and has a voice which is somewhat peculiar – but not decidedly peculiar. He had not a good word for anyone from Robinson to Greene – although he did not speak unkindly of the Brandegee.

B.L. Robinson told me that Jones was formerly a Presbyterian clergyman. He looked it – that is I mean something like a poor type of minister.

- August 30. – Tennessee Pass.
- August 31. – Denver
- Sept. 2 – St. Louis. Visited Trelease and the Missouri Botanical Garden.
- Sept. 3. Cincinnati.

# Cambridge, Mass, 1896

– Sept. 4. New York.
– Sept. 5. Boston
– Sept. 7. Cambridge. Worked at the Gray Herbarium steadily. Robinson was very kind. So too Greenman (see Jepson corresp. vol. 30: p. 223, ~ 1931). and Fernald. Was entertained by Farlow, the Thaxters, Goodale, Deane, etc. Had a great time every way. Rose worked here for a time during my stay.
– Dec. 22. Boston to New Haven. Met Setchell's Family and also W. H. Brewer whom I found very interesting. He took me to dinner. Went on to New York and
– Dec. 25. Washington. Where I met Chesnut and Palmer, Greene, Coville, Merriam, Ward, etc.
– Dec. 31. Louisville, Glasgow, Ky.



# Tucson, Jan. 1897.

Stopped at Glasgow with Dr. Jesse Jepson, my father's cousin.
– Jan. 3. Frankfort, Ky. Rode out west to the settlement of Jepsons. This country was once all prairie. It looks now like a primitive forest. The Indians regularly burned it off and kept it prairie. With the coming of the white man the fires stopped.
Jan. 5. New Orleans. After a day here went on to Tucson where Toumey met me. Had seen him at Berkeley in 1895. He called on us in August of that year. He is a tall well-built fine-looking fellow. Brown eyes, dark almost black hair and exceedingly pleasant manner. Received me

Tucson, Jan. 8, 1897.

in the most hospitable way. At the same time saw W. P. Blake, Director of the School of Mines of the Univ. of Arizona, fine-looking gray-haired man. Miss Blake I saw also. Tuomey confided to me his engagement to Miss Blake. Tuomey is doing good work in botany. Has discovered three new forest trees in Arizona. Has a fine collection of cacti in his herbarium and was the first to show that good herbarium specimens of cacti could be made if one would take the necessary pains.

Went on to San Bernardino where I was met by Parish who drove me out to his farm.



San Bernardino, Jan. 11, 1897.

The Parishes were most hospitable. When I arrived in Colton, January 11, on the Sunset Limited. I took the motor car to San Bernardino and was met by Parish - which was a very pleasant thing as I had not expected him to meet me. He drove me in his carriage a couple of miles into the country to his farm. His house was a quaint collection of additions and reminded me a little of the old Platt house at Vacaville. The Parishes, like the Platts are also New Yorkers. The next day I was taken for a drive through the orange belt to Redlands and over Smiley's place, Crest Canon drive.

They told me many curious tales of Orcutt. Orcutt, Parry, T. & R. and M. E. T. & C.

## San Bernardino

Jones went into Lower California. On the return trip Orcutt and Jones got within a day's journey of San Diego on Saturday night. Jones the next morning proposed to go on. Orcutt, who owned the team, objected, on account of the Sabbath. Jones by force dispossessed him and went on to San Diego — leaving Orcutt behind. The newspapers made quite a row about the shameful manner in which young Orcutt was treated. This by the way is now a famous story among botanists — I heard it in a slightly different form from Rose.

Parry "took up" Orcutt



## Jan. 12, 1897.

in the first place and encouraged him, believing he had scientific ability. Orcutt was always hard pressed for money. Indulged in the wildest schemes. Advertised in the "Scientist" for collectors — would pay $100. a month. Even Pringle "bit". Mr. and Mrs. J. G. Lemmon went clear to San Diego only to find out that the collectors were to earn their $100 "en route" by soliciting subscriptions to the "Scientist". The Lemmons had little money and the affair was quite disastrous for them.

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- In New Mexico one can see further and see less, see more cows and less milk, more rivers and less water than any other spot on earth.

# Gray Herbarium. 1896

— Eriogonum truncatum." Dry hillsides at Marsh's Ranch, E. of Mt. Diablo. May 29" — Single type sheet in Gray Herbarium.

— Robinson, B.L. told me that Asa Gray destroyed all his letters, — by which he meant all letters from American correspondents. What a loss! Gray evidently preserved letters from Hooker and other English botanists. This is an instance of Gray's somewhat narrow attitude in certain respects. He was tainted a little with snobbishness. — Feb. 18, 1918. Not a little, a good deal.

— Robinson, B.S., said that Asa Gray was bored by the persons in California who planned field trips for him. Gray went away for a rest and for change, and did not wish to be tired by such parties. So said Robinson.

I add to this. Gray was not a field man or collector. As curious



as it may seem he had no interest in field work. Fernald tells me many years after the above that Gray did not know the New England flora in the field or really much at all in any way. Certainly he did little or no botanizing on his three trips to California. Doubtless he did more when he came with Hooker because J.D. Hooker was a field man. There are very few plants in the Gray Herbarium collected by Gray. It was perhaps the grand manner that kept Gray from being a collector. He liked to be lord at Cambridge and direct the collectors what to do. Moreover they were to be just collectors and send everything to him, leaving to him the publication of all new species. Moreover Gray was bored at the thought of going into the field with persons who expected him to name every plant at sight. He could name very few! He did not know them as living things. In fact he said to one person: If you will dry it, I will tell you its name. He did not wish to expose his ignorance.

But above all was the grand manner. See his letters where (cont. 69)

No. 100 a. Juncus dubius Engelm. Det. F.K.C. July 7-12, 1896, Yosemite Valley

No. 100 b. Juncus phaeocephalus Engelm. var. paniculatus Engelm. Warm Spr., June 8, '96

No. 100 c. Ansinckia intermedia F.M. Det. McBride Little Oak, Solano Co. 16 May '96

No. 100 d. Ansinckia tessellata Gray. Det. McBride Betw. Moredale School and Atlanta, San Joaquin Co. plains. 27 June, '96.

No. 100 e. Amelanchier alnifolia Nutt. Merced Big Trees, 6 July '96.

No. 100 f. Thysanocarpus curvipes Hook. Yosemite, July 7-12, 1896

No. 100 g. Monardella douglasii Benth. Gilroy, 16 June 1896.

No. 100 h. M. leucocephala Gray. Merced plains (15 July '96. View La Grange, see p. 31, ante.

No. 100 i. Monardella odoratissima Bth. South Yolla Bolly, 2 July '97

No. 100 j. Monardella viridis Jepson Mt. Hanna. 15 July '97.



cont from p. 67. he and Mrs. Gray go somewhere into Spain or France for a long vacation — but no botany or collecting. Here in California, I (and others) have gotten our vacation, a real one, by a collecting trip into the Sierra Nevada for an entire summer. A change of scene complete, the experience of the mountains vitalizing and renewing, the long lazy days in the open and the nights under the stars. — Apr. 6, 1934.

– Erodium moschatum L. Her.
Continues to spring up in cultivated land after the soil has been cultivated for twenty years. It favors orchards and vineyards.

Alfiler, a needle.
Alfilerilla – (E. Parsons).
Filaria – (V. Ratton.)
Alfilaria – Bot. Bod. 1:94.
Filaree – in common use amongst the people.

– E. cicutarium L'Her. is more common at Ukiah, – Carl Purdy. April 22, 1898.

– E. moschatum L'Her. at Lytton Spgs., Alice King in June, 1897.



– Erodium cicutarium and moschatum. Concerning abundance odor, forage value – see Jared Smith in U. S. Dept. Agr. Agronomy Bull. no. 2. 1896. E. moschatum most abundant, favorite fodder, less odorous of the two common species.

E. cicutarium is more abundant in the San Joaquin Valley. E. moschatum disliked by stock. E. cicutarium is more abundant in the Livermore Valley (it has something of the odor of carrots there). – J. B. Davy.

E. moschatum is on the level lands at Berkeley; on the hills E. cicutarium is the only species – E. moschatum. In Napa Valley it occurs in the fertile valley lands, in the vineyards, to the exclusion of other things. Prof. Hilgard says it is driving out E. cicutarium. Davy says he heard that in the region of Tulare. – W. L. Jepson, about 1897.

# Berkeley to Bald Peak and Orinda Park

Sept. 7, 1895.

- Platanus racemosa Nutt. in cañon to right of Bald Peak straight down to Orinda Park. Tree 8 ft. diam., 60 ft. high.

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## Ross Valley, Mar. 23, 1896

- Acer macrophyllum Pursh. In full flower, very beautiful at this time - the leaves barely appearing.
- Quercus Kelloggii. Styles 4 (or 3), longer and more slender than in Quercus agrifolia. Bracts 6, instead of 2 as in " ". Membranaceous involucre surrounding ovary and styles similar, but the ovary more evident at flowering stage and the thickened cushion (the future cup) far plainer in Q. Kelloggii. The staminate fls. should be looked up and compared.
- Torreya Californica, Near Cascades, Mt. Tamalpais.



## Ross Valley, Mar. 23, 1896.

- Kellogg Oak, first leaves appearing = a beautiful magenta.

# Trip into South Coast Ranges

See pp. 76 - 81.

## Coyote Creek. - stream bed

- Baccharis viminea
- Gnaphalium palustre
- Ammochia Oregana ? in leaf only.
- Platanus racemosa.
- Quercus agrifolia. Fine specimens as I ever observed in Santa Clara Valley just before reaching Coyote Creek.

## Stream just south of Gilroy

- Platanus racemosa. — 9 ft. 8½ in. / 16 ft. 4 in. girths at 4 ft.
- Fraxinus Oregana
- Rosa Californica
- Sambucus glauca
- Artemisia heterophylla
- Populus trichocarpa. tall shapely trees 40 - 50 ft. high.

## Soap Lake*, on road to Hollister.

Salt plants.

- Atriplex spp. } collected.
- Navarretia sp }

* = Bolsa.



# June, 1896.

- cont. from p. 74
- Lepidium
- Frankenia grandifolia C.+S.
- Salicornia
- Cressa Cretica
- Dactylis maritima
- Centromadia pungens.

## Santa Cruz Mts. June 17-18, '96

Everything much later here than in the Bay Region it seems to me.

Linanthi just in fl. Brodiaea laxa, Platystemon and many other things.

- Aesculus Californica in fl. Santa Cruz Mts. both sides of the range, June 20.

## Watsonville Road from Gilroy. June 16, 96.

- Chamaez, on east slope.
- Lotus glaber.

# Berkeley to San Jose

- Left Berkeley, May 26, at 8:15 A.M. Lunched one mile beyond San Leandro under a "spreading almond tree" to quote the redoubtable "Wary Willie" i.e. W. A. Setchell. My own name is "Dusty Roads"
- May 27. Camped near Irvington in a pasture lot. Got into San Jose at 4 P.M. and decided to return to Berkeley on account of lame horse
- May 28. Camped last night about 2 mi. north of Milpitas. Broke camp at 6.15. Lunched beyond Mt. Eden. Reached Berkeley at 8:00 P.M.
- June 7. Yesterday tried our new horse and decided to



# May 26 – , 1896.

start this morning (Sunday) which we did at a few moments before 9:00 o'clock Lunched just beyond San Leandro. Passed through San Leandro, San Lorenzo, Mt. Eden, Alvarado, Hall Station. Alviso School. Camped at the last named place – where we camped before. Horse goes fine. The collecting about Alvarado in the marshy places is particularly fine.

June 8.

Passed through Centreville, Irvington, Warm Springs, Milpitas. Lunched within 4½ mi. of San Jose.

# San Jose to Gilroy

Camped last night on Coyote Creek, within half-a-mile of the 12-Mile House. Railroad cut near camp. On top of the cut collected Rencedanum macrocarpum in fine fruit and Eotyledon Setchellii Jepson, which is the Type locality. Had the company of some teamsters that swore and swore as was becoming their profession and birthright. June 9. Lunched in a creek beyond Morgan Hill. Passed in the morning Coyote (12 mile House), Madrone, Morgan Hill; in afternoon Rucker, Gilroy.

June 10. Camped last night on creek south of Gilroy. Have come 80 mi. from Berkeley. This is a picturesque camping ground, under the Sycamore Trees on



# June 9 - 11, 1896

the creek bank; in front of us a field of sweet peas, and the valley and the grand curving sweep of the Interior Coast Range with Mt. Hamilton in the distance to the north. Loma Prieta? looms up from here even; it is just opposite Morgan Hill. A number of conical peaks are to be seen in the southeast. To the southwest there is quite a high ridge with a sharp point (possibly Gavilan Mt.?)

June 11. Reached Hollister but had to turn north again to get to Pacheco Pass. Camped in Pacheco Pass*; I was taken sick in the night and the next morning

* For an incident in the Pass see Men and Manners 5: 152 (Harvard Journal)

# Hollister to Santa Cruz Mts.
June 15 – 24, 1896.

we returned to Hollister. Recrossed and June 15, Monday, left at 2:15 P.M. Stopped all night at a hotel in Gilroy. June 16, took the Watsonville road, climbed the Coast Range ridge and down the other side to within 4 mi. of Coralitos where we camped. June 17, went on to Santa Cruz. Came back to Soquel and started into the Santa Cruz Mts, camping on Soquel Creek, until June 22, botanizing all the while, when we went on over the mountain by the Hotel de Redwood to Wrights. Lunched above Wrights. Moved down the canon to Forest Grove. Billies celebrated "Dark" in the creek occurred here. June 23,



# San Jose to Altamont,
June 24 – 26, 1896.

camped all day at Forest Grove.* June 24, went out of the mountains past Alma and Los Gatos to San Jose. Then to the old camping place in the lane near Milpitas. June 25, Started for Livermore via the Niles Canon. Road blocked and so we had to come out again and go back to Mission San Jose and over the mountains to Vallecitos.

June 26, stopped all night last night in Livermore at the Washington Hotel. Lunched 4 or 5 miles beyond Altamont.* cf. bottom of p. 82. After passing the summit beyond Altamont and taking the down road, the flora of the San Joaquin came into evidence, Spiro-

* Later called "Eva station".

# Oakdale, July 1, 1896.

stachys occidentalis and Suaeda torreyana (We passed Greenville which is a stopping place for campers before reaching Altamont.) The Mountain House is within the country line of Alameda 1/2 mile. Stopped at Banta for barley and camped that June 26 night on the San Joaquin River at the Bridge* p. 82a. – the usual supply of mosquitoes. (near Mossdale School).

June 27. Sat. Took the road to Oakdale which runs across country in a straight line due east for miles and miles*. On this road we found plenty of the characteristic plants of the sandy plains see p. 82b. of the San Joaquin in good condition, Gilias, Phacelias, etc. The flora

† Oenothera trichocalyx, – cont p. 83 –



* p. 82.

[On one of my old collecting sheets, Phacelia heterophylla var. imbricata or patula, I find the locality notation: "Lower San Joaquin. On long east section lone road." Between Banta and Oakdale there was not a village or town on this road, scarcely even a house in sight. Now it is lined with villages, towns and green farms. – Oct. 18, 1924.]

The San Joaquin Bridge is at or near the the old Moss Ferry over the river. After passing the ferry, the road runs north-east a short distance, then takes up the due east direction along the section lines. The present Mossdale School (of topographic map) is near the old Moss Ferry. Name Mossdale probably derived from the ferry.

826 Sandy plain between Modesto and Atlanta, San Joaquin Valley, June 27, 1896.

– Salvia carduacea Bth.
– Phacelia hispida Gray.
– Oenothera trichocalyx
– Phacelia imbricata Greene.

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* Cont. from * p. 81. See record of a road incident, narrated in Men and Manners, vol. 14, p. 154.



# July 1, 1896.

cont. from p. 82 –

of the plains begins not far from the river and the soil grows high grain. At the end of the above road we turned to the left, i.e., north, and struck the Modesto road, running across country diagonally, just above Atlanta post office. Crossed at length the San Francisco and San Joaquin Valley R.R. at a station of which I did not discover the name. Camped that night at Burnett, within 2 mi. of Oakdale. – June 28. Went into Oakdale, passing over the Stanislaus River within half-a-mile of the town. Ran across Thompson, '92. Waited there until we sent for money and received it and then, July 1, took the

## La Grange to Hazel Green.
(Stanislaus Co.) (Mariposa Co.)

road for La Grange, diagonally across country; lunched pretty close to the Sierra foothills. Camped at La Grange on the bluff over-hanging the river at the west end of the village.

July 2 - 22 miles to Coulterville through the hot foothills. Lunched about 10 mi. from La Grange. The Douglas or Blue Oak covered the first low rock-covered hills and was the first tree. Ceanothus cuneatus next came in, individuals and in little clusters. (No chaparral). Very scraggy.

As we gained altitude at the last of the 10 miles (see p. 136c) we got the Gray Leaf Pine and just before it the Buckeye. Prosopis



## July 2 - 5, 1896.

was rare and was only seen at the last of the 10 mi. At the lunch place Quercus Wislizenii appeared to be common. Rhamnus Californica or rubra was got at La Grange.

July 3 - Camped in an old apple orchard within 3 mi. of Coulterville and this morning, July 3, I went on through Coulterville where we purchased some supplies and then up Greeley Hill to the Mountain View Saloon where we lunched. That afternoon we made Bower's Cave early. Setchell went into the cave.

July 4 - Made a point within 2 mi. of Hazel Green where Billy "balked" at noon. (Toll House. See p. 136a seq.)

July 5. - Billy still balks. At noon we got started off by the aid

# Hazel Green to Yosemite

5665 ft. July 5. July 7-12.

of a young fellow from Coulterville who was driving a party to Hazel Green. Billy followed his horses up the hill. Then we went down, and when we began the ascent to Hazel Green he balked again after being watered at a wayside trough. This was an error of judgment as we had been starving him with the idea of getting him to the end of the two miles before breaking his thirst. I went up to Hazel Green and got a packsaddle. Young fellow there came back with me and we tried the horse again and made him start with half a load. I came back from Hazel Green with an empty wagon and we took up the rest of the load. Fine botanizing* around Hazel Green

* See p. 156 for Pleuricospora.



# July 5 - 14, 1896.

and all the way to the valley.

July 6. Started on with a light wagon. Billy required to be lead on all up grades. Lunched at Big Meadows. In the afternoon "put Billy through" on the down grade to the valley. Took most of the stubborn streak out of him.

July 7. Tuesday. In camp beneath the Royal Arches. Went to Vernal and Nevada Falls and many places about the valley.

July 13. Broke camp; started early, 5:40 A.M. Lunched at Crane Creek. Reached Hazel Green between 4 & 5.

July 14. Started at 8:00 A.M. Lunched a mile beyond Bower's Cave and camped 4 mi beyond Coulterville at an "Eyetalian's".

# Tuolumne River Bridge.

July 15. Made La Grange, 20 mi. by 12:20, where we lunched. Started at 7:00, thence down the river and camped over night on the Tuolumne (River) by the Great Bridge*. Fine oak at our camping place across the river from a great farm. Plains across the San Joaquin plains to Stockton when took boat for San Francisco

July 16-17. Oakdale, Stockton

July 18. Berkeley.

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## Notes on Sierra Trip

First Toll House - Coulterville Road to Yosem.

- Sugar Pine
- Acer macrophyllum, first noticed on Greely Hill, eastern descent.
- Flow. Dogwood
- Quercus chrysolepis, not found below or only a few individuals.

Coulterville = 1600 ft.

Greely Hill = 3000 ft.

* cf. F. B. 48:134, No. 14,986.



# Sierra Trip. - July, 1896.

- Heteromeles arbutifolia, in fl., but you get pretty high before you get it. - not in the first foothills about Coulterville.
- Pinus Blanco, first before reaching Coulterville
- Merced Grove, Big Trees, 2 trees: 28¼ ft. circ. and 41½ ft. circ.; both at 5 ft.
- Hazel Green, 26 miles to Coulterville
- Yellow Pine, first one seen near Coulterville.

## La Grange.

- Nicotiana glauca
- Erodium Botrys

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Aug. 8. - Pt. Pinos || Remainder of 1896 see p. 58

Aug. 10 - Carmel River, Mission Carmel and Cypress Point.

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1897 - Mar. 28. Olema

" - Apr. 10. Tamalpais Summit, Ross Valley to Mill Valley

- Apr. 30 - May 2. St. Helena, Sanitarium and Rebecca Grade.
- May 23 - Miller Cañon, Vaca Mts.
- June 23 - Santa Cruz Mts., Skyland, Wrights
- June 19-20. Niles, Morrison Cañon, Davis
- June 28, Berkeley. } Landing, Newark.

# Yallo Bally

- Left Vacaville Sunday morning July 11, 1897. Stopped for a few moments at Thurber's in Pleasant Valley. They gave us a box of peaches which were "out-of-sight", in an incredibly short time. Lunched in Putah Canon beyond the Devil's Gate. Stopped for the night at Monticello

Monday, July 12

Lunched in Pope Valley. Camped in Butt's Canon. - see photo of old kiln.

Tuesday July 13

Lunched at Langtry's Ranch, the farm of the Jersey Lily. [Lake County

Camped on Cobb. Mt.

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- Acer Negundo, Putah Creek, ! July 11, 1897 !



# Expedition, 1897.

Wednesday, July 14.

- Lunched at Glenbrook and stopped there until the next morning.

Thursday, July 15.

- Lunched in Big Valley - see photo. Camped in Scott Valley.

Friday, July 16

- Lunched at Hemlock. Camped at Hemlock.

Saturday, July 17.

- Lunched at Hann's, Potter Valley. Camped at Compton's. See photo of the old barn.

Sunday, July 18.

Passed Hearst's (Traveler's Home), Whelan's (South Eel); lunched at summit of Sarthedrin Pass

Vacaville to Middleton & Cobb Mt., July 11-12, 1897

- The only pine from Vacaville to Vacaville to Butts Canon (between Pope Valley and Middleton) is Pinus Sabiniana.

Cupressus macnabiana - common on the dry chaparral hills between Adams Springs and Glenbrook. (Also abundant from Butts Canon into Coyote valley). The chaparral mentioned is Arctostaphylos manzanita, Rhamnus California, Adenostoma fasciculatum H.&A. Quercus dumosa, Ceanothus Jepsonii (which seems to replace C. cuneatus of Berryessa Valley) + Pickeringia montana, the Cypress (C. macnabiana) - Monticello to Samuels Springs, 5.2 ft at 3 ft. Height = 40 ft. acc. Hunt, 35 acc. Mich.



Butts Canon to Cobb Mt, July 13, 1897.

Butts Canon is the pass between Pope Valley and Coyote Valley. On the divide I met the first Yellow Pine - single tree. The common shrubs on the divide are Arctost. aplylos manzanita, Adenostoma, Yerba Santa, Ceanothus Jepsonii, C. cuneatus. Oaks = Quercus Kobali, Douglasii, Wislizenii, One Kelloggii at this point.

The Langley Ranch is in Coyote Valley. In the yard stands a fine Valley Oak 18 ft. circ at 5 ft.

From Middleton we climbed Cobb Mt. as the wagon road goes. and camped all night at the summit. The next day we went on to Adams Springs & Glenbrook. - Big Sugar Pine at Glenbrook, 6 ft. diam. at about 4 ft from ground - made 10,000 shakes. Difference in splitting quality of tree. "Shake-splitter will hunt around a day or two to secure a desirable tree"

# Glenbrook, July 14, 1897

People here distinguish 3 vars. of Yellow Pine:- Bull Pine, Yellow Pine, Black Pine. They say Libocedrus is on Mt. Hanna and Mt. St. Helena; That Sugar Pine is to be found on Felix McNultys place 2 1/4 miles from Toll House; also on Livermore place east of McNultys 1 1/4 mile; also formerly on Pope Mt but Oat Hill mine cut it all up for mining; on Cobb Mt one tree in 20 or 50 of the pine forest is Sugar Pine but the Glenbrook landlord says 1/4 of the forest is Sugar Pine.

- Pinus ponderosa on Cobb Mt.:

| | | |
|---|---|---|
| No. 1 = 11.7 ft | } | at 5 to 6 ft from ground. Trees about 100 - 125 ft. h. |
| No. 2 = 8.5 ft | | |
| No. 3 = 10.7 ft | | |
| No. 4 = 9.00 ft | | |

- Quercus chrysolepis - first seen between Middleton & Glenbrook.



# Glenbrook to Scott Valley, July 14-15, '97

- Sambucus glauca at Glenbrook, the circ of 7.1 ft was taken at 1.9 ft. above the ground. Two limbs (5.7 & 3.6 ft circ) branch at 4.6 ft. It is a protected tree, - i.e. growing in the grounds of the resort. Height = 22 ft.
- "Arrow-wood" = Amelanchier alnifolia
- Mt. Hanna, Douglas Spruce 16.2 ft circ. at 5 ft.
- Ranunculus flammula var. intermedius Hook Mt. Hanna.
- Pinus alternata - one tree on Glenbrook road to Big Valley, just beyond fork to "Sweetwater Valley & Spring" road.
- The tallest oak I ever saw in Lake Co. and the most remarkable of its type is at the upper end of Scott Valley near the Blue Lakes Forks. Its remarkable measurements

Scott Valley, July 16, 1897.

were as follows:

Height = 125 ft. Measured by Hunt.
Trunk = 45 ft. high, before branching
Circ. of trunk = 11 ft. at 5 ft. from ground

- Oregon Ash (F. Oregana)
  Height = 90 ft.
  Circ. = 8.4 ft at 5 ft.
- Laurel (U. Californica)
  Height = 50 to 60 ft.
  Circ = 6.4 ft at 5 ft.

All of these trees were in Scott Valley. The oak must have been crowded when young to attain such a height and to possess such a splendid straight clean trunk.

- [ Redwoods near Willets - within about 2 mi. Willets - 14 mi from Tomki. This information from a man on prong Scott Valley Creek.



Cold Creek, Potter Valley, Comptons, July 17.

- Quercus lobata in Potter Valley near Hawn's Ranch - 23 ft. 7 in. at circ. 5 1/2 ft. from ground.
- Ceanothus foliosus, between Comptons & Sanhedrin.
- Buckeye, manner of folding leaflets as protection against sun - conduplication - on Sanhedrin, grade to Eden Valley.
- Pinus Sabiniana, scarcely any shadow cast by its foliage. Abundant after leaving valley
- Pinus ponderosa after leaving Cold Creek.
- Pseudotsuga Douglasii after leaving valley.
- Quercus Douglassii, lobata (one big one 23 ft. 5 in at 5 ft.; Wislizenii.
- Fraxinus Oregana, along stream, 15 to 25 ft. high.

Tomki, Traveler's Home, S. Eel River, Sanhedrin Pass, Eden Valley, Middle Eel, Henley's Ranch in Round Valley, July 18-22, 1897.

July 18 - Passed Traveler's Home and S. Fork of Eel (Whelan's). Lunched at summit of Sanhedrin Pass. Passed through Eden Valley. Ascended another big ridge and dropped down to Eel River and camped all night. No hay for the horses.

July 19. Monday.

Started up to top of next ridge. Killed a rattlesnake at top of ridge with the shotgun. Frightened the team out of their skins; they jumped and left the wagon behind.

The trees at this point



are:- Digger Pine, Blue Oak, Kellogg Oak, Rhamnus Californica, Ceanothus cuneatus, Quercus dumosa bullata.

- Cottonwood on the Eel.
- Big-leaf Maple all along.
- Camped at Henley's Ranch.

- Alonzo Doane, 3½ mi from Covelo, 2 mi east, then north, "Squaw Man"
- Madrona, on grade Potter to Eden Valley, 8 ft. 6 in., 45 ft. high, about 15 ft. straight and clear. (Arbutus menziesii Ph.)
- Quercus chrysolepis near preceding

No. 125a. Cuscuta ~~californica Choisy~~ brachycalyx var. apodanthera
Potter Valley to Traveler's Home. 17 July 1897.

No. 125b. Cuscuta subinclusa D. & H.
Niles, June 20, 1897.

No. 125c. Cuscuta ~~breviflora Bayrich.~~ pentagona Engelm.
Alvarado. Sept. 9, 1897.

No. 126c. Amelanchier alnifolia Nutt. var. subintegra Jeps. MS.
Glenbrook, Lake Co., 14 July '97.

No. 126d. Dentaria conjunbosa Jeps. MS.
South Yallo Bolly, 24 July '97.

No. 126e. Raphanus sativus L. Berkely June 25, 1897.

No. 126f. Brassica campestris L. May 19, '97.



Round Valley. July 22, '97
1350 ft.

For further notes see Letter File,
P. B. Westermann*, June 6, 1898.
V. K. Chesnut, Aug. 30, 1898.

* In his letter the name is spelled Westerman, altho' written more too plainly. cf. Jepson Corr. 2: 372. Also on the printed label for his Round Valley plants; cf. Pedicularis densiflora, U. C. Herb.

# Round Valley. July 22'97

"Hogs driven out to Ukiah.
Wild cattle drive well when they get off the range and are started "on the road". Drive better than tame cattle.

Turkeys driven out — 125 met on road this winter." - P.B. Westermann

Round Valley has the reputation of being the county of the hardest characters in California but I never met more obliging or genial men or men who seemed to be more jealous of the good name of their valley. How curiously contradictory, it seems, for the ground is drenched in blood. Sunday is the grand holiday and the streets of Covelo are lined with saddle-horses from the ranges. Note this: Every



# Round Valley. July 22, '97

"Valley 8 mi. longest way (N.W. & S.E.) - 4 miles wide.

Indian Reservation occupies about ⅓ the valley.

Valley produces all wheat into which flour is made. They supply Long Valley, and also the mountain country for 25 or 30 miles around.

It is 25 mi. to Sacramento Summit. Stock is driven to Sacramento valley and Willows; most goes to Ukiah.

Bob White ranch runs across the valley except a narrow strip on east side. — 4 miles long". - P.B.W.

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place is open. However the Flour Mill is closed but finds it necessary to put out this sign "This Mill will be closed on Sundays"!

# Round Valley.

"Fall of snow - 6 in. deep at most in last 11 yrs - rarely lies more than 1 day - 2 days at outside

Cultivated:-

Prunes, a few
Peaches
Apricots, a few
Plums

} Heavy frosts in spring - even catch:

→ Apples and Pears

Orange Trees near Poonkinney - Southern exposure, down next to Eel River, Eel River Bridge. "Orange Belt" (Killing frosts now - Mar. 14, '98)

Acorns freeze and blacken and fall out, spoiling the acorn or mast crop.

October = acorn month" - P.B.M.



# Round Valley, July 22'97

"Not more than three months without frost."

Freezes so hard in December that the green grass will - will not grow right along - favorable warm weather will start the grass early.

Potatoes abundant - fed to hogs some years - lack of keeping quality.

Corn fed to hogs.

Raise tomatoes, peas, onions, beans on the reservation, carrots, turnips.

Tobacco raised on the reservation - sold to sheep men for "dip".

Not a month in year without some rainfall.

Article in Ukiah Press on Resources of Mendocino Co., special ed., article by Thos. Henley." - P.B. Westermann.

# S. Yallo Bally Mt.

7380 ft. acc. California Forest Map (U.S. For. Serv.) ne. Trinity Co. c. 8800 ft **

- Crepis occidentalis Nutt., in 3 forms varying in size, at or near summit South Yallo Bally.
- Wyethia, S. Yallo Bally.
- Hieracium cynoglossoides Arnott var. nudicaule Gray. S. Yallo Bally
- Crepis acuminata Nutt.
- Erigeron Bloomeri Gray.
- " micer Gray (Castle Peak).
- Solanum Xanti Gray. Castle Peak to Middle Eel, Ace-Bean Camp.
- Ceanothus californicus Kell. Carter Rohroby's Camp, Middle Eel.*
- Nuphar polysepalum Greene Soldiers Ridge.

** A rough approximation. Mt Linn is 8604 ft.

* This is on ~~North Fork of~~ Middle Eel River. Foster Glades (see Forest Service Map) are about 1 mi. ne.



# July 25, 1897.

- Ranunculus alismellus Greene.

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Locations as to County

Place names on Yallo Bally Trip

See calendar, p. 110.

1. Soldier Ridge, = Trinity Co.
2. Crossing ~~of North Fork~~ of Middle Eel (Rohroby's Camp)* near Foster Glades = Trinity Co. * for spelling see p. 128.
3. South Yallo Bally is on county line between Tehama and Trinity Cos., acc. to all the old maps and acc. to State Mineralogical Map, 1916. But on U.S. Forest Service map of California Forest South Yallo Bally becomes "Mt. Solomon", and Mt. Linn ("U.S.C.+G. Survey") becomes South Yallo Bally.
4. Red Rock, Castle Peak, Williams Creek, are in ne. Mendocino Co.

– Cont. p. 108 – Tall

# Round Valley
1350 ft.

Asclepias eriocarpa Bth.
Solanoa purpurascens, Greene. - Soldiers Ridge.
Gomphocarpus cordifolius, Gray. - Williams Parks.

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- Continued from bottom p. 107.

5. Asa Bean Ridge. This name is not on the Forest Service map,* but the "Asa Bean Trail" is on the map. It goes along the top of the Asa Bean Ridge, NE. Mendocino, and drops down to the Middle Fork Eel River, then up towards Soldier Ridge via Foster Glades. Foster is referred to p. 119 seq. Cont. p. 109.

* See p. 109



# [Westport and Ft Bragg.

- Cnicus edulis - Westport.
- C. Breweri Ft. Bragg.
- C. venustus, Potter Valley
- Ceanothus incanus T & G. Cahto to Westport, edge of redwoods, July 30, '97
- Rhamnus Purshiana, DC. Near Cahto

Perhaps not typical.

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- Cont. from p. 108 and p. 107.

2. The "North Fork Middle Eel River" is now simply Middle Eel River on Forest Service maps (1933), the South Fork Middle Eel having been christened Black Butte River.

* note for p. 108.
Latest map Mendocino National Forest gives Asa Bean Ridge. The trail runs along top past Red Rock and Castle Peak, and down to Carter Rohrsby's camp on Middle Eel which camp or flat is now marked Asa Bean Flat on the above noted map.

# Calendar Yallo Bolly trip

## 1897.

(For locations as to county see p. 107 ante.)

July 23. – Left Henley ranch, Round Valley for Bile Williams Fork, Red Rock, Castle Peak along Asa Bean Ridge to crossing of North Fork Middle Eel River at Carter Rohraby's Camp. (marked Middle Eel on Forest service map. Rohrabys Camp marked Asa Bean Flat.)

July 24. / Left Rohrabys Camp / (Asa Bean Flat). along Soldier Ridge to pinnacle of South Yallo Bally. Over night.

July 25. South Yallo Bally, (S.E. Trinity Co.)? return by Soldier Ridge to North Fork Middle Eel River.

July. 26. Middle Eel camp to Asa Bean trail and return to Covelo.



## Place Names, Yallo Bolly Trip.

– Soldiers Ridge, written in my notes and on labels, Soldiers Ridge. Former form = U. S. For. Service map.

– South Yallo Bolly, of my trip now = Solomons Peak. Since I have used name in former sense in printed parts thus far (Pt. Bal. [Pts. 1-7] I continue. Equivalents to appear in Geographic Index.

– "Carter Rohraby's Camp" is at or near the present Asa Bean Flat of the Forest Service map (1929).

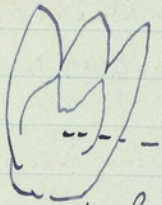
– The note below re. P. B. Westerman is made Apr. 3, 1936. The note on p. 105 ante is from contemporary notes made in 1897.

Westerman, P. B. A school-teacher whom we met at Henley Ranch, Round Valley. He married Miss Henley. On collection labels (his Round Valley spms.) his name is spelled as above; on p. 105 ante, from a note made at Henley ranch, with 2 n's; in Jepson Corr. vol. 2 see a letter from him, with one n, but the "r" left out apparently.

# Trip to Yallo Bally Mts.

(See p. 107)

- Henley's Ranch, Round Valley to Bill Williams Fork, Red Rock, Carter Rohrabys Camp on "North Fork Middle Eel", Soldier Ridge to Pinnacle of S. Yallo Bally and return.
[Carter Rohrabys Camp and Soldiers Ridge are in Trinity Co.]. See p. 107.
- Bolelia, near Red Rock: Lower lip not spreading at right angles, ascending, somewhat concave, light blue (no purple or yellow)



- white

Upper pair of lobes reflexed! Anthers of stamens curved!
- Ivitelia laxa, Red Rock.
- Carter Camp - Galium Kelloggii
Cercis occidentalis
Silene Californica.



# July 23-26, 1897.

Trip to South Yolo Bally from the Eel River.
- Pinus ponderosa, 22 ft circ at 6½ ft.
- Libocedrus decurrens, on wind-swept ridges carrying Pharadendron Bolleanum.
- Dwarf Quercus Kelloggii on ridges.
- Ceanothus cuneatus
- Pinus Jeffreyi at considerable altitudes? [Yes. 1902]
- Sprognea umbellata Torr.
- Pseudotsuga taxifolia 20.6 ft at 5½ ft.
- Libocedrus 13.7 ft — 50-60 ft. h.
- One Sugar Pine to about 30 or 40 Pinus ponderosa.
- Firs 50-65 ft. h.
- Pines 75-150 ft. h.
- Brodiaea minor, Ivitelia lacted, Barbarea vulgaris, Wild Cherry, Megarrhiza

South Yallo Bally July 25, '97
(See p. 107)

- Ceanothus (cordulatus) - highest ridges.
- Fir, 13.6 ft circ - 75-100 ft. h.
- Ceanothus prostratus 15th.
- Only trees Abies in summit of S. Yallo.
- Camped all night in a little hollow just below pinnacle. Cold fearful. The next morning the wind had cleared the upper atmosphere and Shasta stood out high & close as if it belonged to some planet sailing near, so effectually was the smoke & haze below. Peaks in sight: Lassen Butte, Mt. St. Johns & Snow, Hull, Sanhedrin, Castle Peak, Lassic Peak, North Yallo Bally.
- Arenaria congesta Nutt.



South Yallo Bally, July 25, '97
10,225 ft.

- Saxifraga near camp: pistils red; petals white, claw with a couple of yellow dots at base of limb. = S. punctata (no. 13,479).
- Aster sp. all over
- Yarrow right on top.
- Dwarf pine few in. h.
- Low perennial alpine Castilleia: lip as long as galea nearly.
- Aspidium Californicum from very summit.
- Pentstemon Menziesii, flowers blue reddish-purple: two white bands down throat on lower side; sterile stamen perfectly glaberous
- Pinus Jeffreyi? in highest ridges, 30-40 ft. h, mostly with broken or flattened top.

# South Yallo Bally
10,225 ft.

- Soldiers Ridge is beautifully forested with Yellow Pine, Sugar Pine, Libocedrus and Juniper. - just like a Sierra Ridge to travel it along.
- Eriogonum nudum on Soldier's Ridge.
- Spiraea - all over summit
- Soldiers Ridge the lower end of the ridge held the Yellow Pine, the upper end the Jeffrey Pine, the only spine above the wooning place which was a little over half-way down or about half-way down. Pseudotsuga did not go high on the ridge. Lib-



# July 25, 1897.

ocedrus was mainly on the higher end of the ridge.
- Pseudotsuga near Carter's Camp on Eel = 13.7 ft circ
- Pyrola - Soldier Ridge
- Carter's Camp on Eel :- Campanula prenanthoides, Saxifraga peltata, Amelanchier alnifolia, Thimble Berry, Rubus parviflorus, Oregon Ash, Garrya Fremontii, Rosa gymnocarpa, Pyrola picta, Pyrola ovate leaf.
- Arctostaphylos Stanfordiana Parry. Carter's Camp & Red Rock
- Pine Drops (Pterospora andromeda). [on N. Fork Middle Eel
- Zauschneria with sticky wet foliage.
- [Sugar Pine on Tehama side of Yallo Bally acc to Carter Rohrboy - 25-30 miles of it.]

July 26, 1897

Boa-Bean Ridge, Red Rock to Bill Williams Fork.

(See p. 107).

- Quercus lobata, eaten off by sheep! = "Q. Garryana (1905).
- Q. Kelloggii, girth = 15.5 ft at 5 ft.
- Cherry trees.
- Madrona = 11 ft at 5 ft., 45-50 ft. h.
- Pseudotsuga taxifolia, 120 ft. circ. at 5 ft. Note its pendulous branchlets.
- Agrimonia Eupatoria at morning spring; petals emarginate.
- Bois d'Arcs at morning spring, petals 2-cleft to middle.
- Foot of Boa-Bean Ridge, Mt. White Oak (Quercus douglasii H. & A.)
- Buckeye at Forks of Williams Creek (Aesculus californica Nutt.).
- Ceanothus cuneatus & Arctostaphylos manzanita = the scrubs



Round Valley, July 26-29, 1897.

- Quercus lobata, upper end of Round Valley, 21 ft at 5 ft.; 90 ft. high.

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- Returning from Yallo Bally we stopped at Jack Foster's ranch. J. F. is a character. Lives between Bill Williams Fork & Round Valley, not far from the valley proper. We asked him why he didn't go to the Klondike: "I went to White Pine with two black mules and $300.00 in my pocket and I came home with my fingers in my ass and my blankets on my back and cursing every step of the way"! See p. 108.

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Round Valley to Poonkerimey, Eel River Bridge and Laytonville, July 29.

[- Eel River Bridge, Ranunculus, Rosa gymnocarpa, Campanula [pren., Tan Oak, Hazel.] — This note is open to suspicion as to locality, having been copied from original slip.

Round Valley to Laytonville, July 29, '97

- Near Laytonville, forest of Douglas Spruce, pure forest, gloomy character,
- Yew! (Taxus baccata) Children eat the berries.
- Sugar Pine, one or two seen!
- Rhamnus Purshiana!
- Pinus ponderosa in drier places.
- First redwoods 6 miles west of Cahto.
- Spiraea discolor, Cahto. (Pasania densiflora).
- Chestnut Oak or Tan Oak (= shell thick, leaves pinnately veined, scales linear, spreading. The live oaks have thin shells, netted-veined leaves and appressed scales.
- Quercus Kelloggii, the most abundant oak in the Cahto district



Cahto to Westport, July 30, '97.

- Pseudotsuga 13.6 ft. circ, 195 ft. high. ¶ taxifolia Britt.;
- Redwoods, 2 miles west of Clarke's. Tree measured 40.4 ft. circ., 175 ft.-h.

Larger trees cut. These remind one forcibly of the Big Trees - the top not slender & tapering but thick and with short branches.

- A few miles west of Cahto on the road to Jackson Valley is the William Clarke place. Near is the Joseph Clarke ranch. Mr. Joseph Clarke was a friend of Dr. Albert Kellogg and entertained him on his botanical visits to this region. The Brandegees have visited William Clarke.

Redwoods, July 30, 1897.
betw. Cahto & Westport, Mendocino Co.

Ceanothus foliosus
Oxalis Oregana
Vancouveria
Campanula prenanthoides
Fragaria Californica
Viola
Stachys ajugoides
Galium triflorum, 15-16 leaflets (mucronate)
Trientalis
Yerba Buena
Vicia Lorreyi
Adenocaulon bicolor
Vaccinium ovatum
Rubus parviflorus
"White Thorn" abundant.
Madrona
Quercus Kelloggii
Gaultheria Shallon.



Redwoods, July 30, 1897.
betw. Cahto and Westport, Mendocino Co.

- Redwood, 28.8 ft circ., 160 ft. high.
- " " 40.4 " circ., 150 " "
- White Thorn, 15 ft. high, Jackson Valley.
(= Ceanothus incanus G & G.)
- Heuchera pilosissima, F
- Circaea Pacifica.
- Berberis ~~[illegible]~~ nervosa.
- Asarum caudatum.
- Clintonia Andrewsiana.
- Ceanothus ovatus
- Whipplea modesta
- Epilobium spicatum (Fireweed)
- Ceanothus thyrsiflorus
- Myrica Californica 25-30 ft. h.
- Tan Bark, 50 ft. h., on crest towards De Haven.

Newport, Ft. Bragg, Sherwood

- Tsuga Mertensiana, 9.1 ft girth, 45-50 ft. high
- Rose Bay, 15-18 scales to buds;- ~~varying from~~ outer, lanceolate - subulate "bracts" Flower buds 6-8 times as long, containing flowers fully formed for anthesis a year hence - these buds often fail to develop and small lateral leaf buds proliferate
- Sea-beaten Redwoods near the ocean - suggestive of Monterey Cypress
- Vitality of the Redwoods, masts eaten to the top by fire - fringe of foliage on one side nearly to the top. Bush growth from



base. July 31 - Aug 1, 1897.

about blackened stump. Fallen redwoods - no tap root. - Noted near Ft. Bragg.

Ft. Bragg to Sherwood.

- Douglas Spruce 225 ft. high, 8.4 ft. girth
- Redwoods, method of felling, chops on one side, saw on other.
- Circular cracking in trunks, due to bending.
- Redwood 33 ft girth, 175 - 200 ft. h.
- Madrona in woods of Redwood and Spruce - no time to spread themselves, had to hustle to get a little head away up.
- Tan Oak, 6 ft. at 4 ft. - 75 - 85 ft. h.
  5.6 " " " " - 110 ft. h.

# Ft. Bragg to Sherwood.

- Madrona, 4.4 ft. girth at 5ft, 80 ft. h.
- Tan Bark, 11.5 ft at 5 ft. — 75 ft. + high. also 9.5 ft at 3 1/2 ft and 60 ft. high.

## The Trees of the Redwood Belt

- Prinus muricata
- Prinus conlata
- Redwood
- Douglas Spruce
- Ceanothus ovatus
- Ceanothus (White Thorn) incarnus T. & G.
- Ceanothus foliosus - well towards interior
- Tan Oak - the only oak
- Hazel - Corylus rostrata cal. well to interior
- Rhus diversiloba



# July 31 – Aug 1, 1897.

## Trees of the Redwood Belt. Cont.

- Arctostaphylos Comentosa *
- Quercus chrysolepis, on very inner edge of Belt + bordering belt on inside.
- Ceanothus thyrsiflorus
- Spiraea discolor, – inner edge
- Rose Bay, galore. (Rhod. cal.)

## Border Redwood Inside

- Black Oak
- Oregon Maple
- Arctostaph. manzanita
- Quercus chrysolepis

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* = A. columbiana!

Sherwood, Aug. 1, 1897

- Gooseberry, fruit deep red, almost lurid
- Stopped all night at the Stanley Ranch in the picturesque Sherwood Valley. Saw Sherwood Chimney a mile back, the historical character of this region.

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- Cont. from p. 107 ante. I have spelled the camp name as Rohraby consistently. Doubtless it was a phonetic spelling but I may have asked the man how he spelled his name. It might well be Rohrerby, since Rohrer is a well-known surname.



Laytonville to Covelo, Aug 2.

- Populus trēmuloides, near Eel River Bridge, "nowing fierce" - [I think this must have been meant for trichocarpa - W.L.J., Sept, 1902] Yes! See spm. so labeled! in field.
- Digger Pine, Adenostoma fasciculatum, Buckeye, Quercus lobata + Douglasii

Covelo to Ukiah, Aug 8-10, 1897 and Healdsburg, Aug 11.

- Dsh; Ukiah - 59 ft at 19ft.

- This journey was to us celebrated. We had a sick horse, my own roadster Ganymede. Billy was his mate and Billy was all right, but we walked all the way from Covelo to Geyserville and Skaggs Springs out of humanity for poor Ganymede. It is astonishing how much country one can cover in a day, even at so slow a pace as a walk! Even the natives, who are used



to teaming, marveled. One little boy stood at the road side and watched the team go slowly, slowly by, the wheels revolving with painful deliberation, and as we got nearly past the little fellow, he could contain himself no longer and cried out: "Oh, Misters, are you going all the way today?"

— Newark. On June 19 or 20, 1897 I went with L. E. Hunt from Niles to Jarvis Landing on a botanizing trip. It is my remembrance we met the Patterson boys (there were two, Henry who came to Univ. Cal., class of 1900, and William who went to Stanford. This morning Dr. Wills, the physician, at the breakfast table at the club, spoke of this family and their large land holdings at Newark, above Decoto and in the Livermore Hills. The father landed in San Francisco in 1849, without means, went into the Livermore Valley, raised a crop (Cont. p. 133)

# Berkeley,

- Sept. 9. Trip to Alvarado to collect marsh plants.
- went to the Academy. Miss Eastwood put in a frame (the frame she possessed previously) a picture of Dr. A. Kellogg. This was the Zöe picture which shows more margin on one side than on the other. Of course this irregularity showed in her amateur framing and she remarked it to Dr. Behr. Should she change it?

"No" said Dr. Behr, Kellogg was of such irregular habits"!

Said Dr. Behr to me - "Nasturtiums in Europe are fertilized by certain insects peculiar to Cruciferae. But in California



# Sept. 1897.

these insects visit - Tropaeolum! Why? It must be because they hear the people calling them Nasturtiums!"

- Bolander, H.N. One of his sons-in-law was the inventor of the cable car in San Francisco. - (see Dr. Behr.

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- Cont. from bottom p. 131
of potatoes and made enough money to buy the land which he had rented. From that start he continued to buy land, and the sons after him.
- April 27, 1939.

Howell Mt. Jan 7, 1898.

- Blue Oak in winter condition, on road up mt., below Conn Valley forks, its gnarled branches and squat appearance.
- Christmas Berry, on hill above Bell Valley, the setting sun illumined the bushes which were very fine, some bushes less leafy and the Berries very large and red.
- Madrone crowning the topmost hill above Toland House - the sun on its chocolate branches.
- South of Anguinis to Echo Pt. a fine forest of Yellow Pine, (some 110 ft. h.) and Douglas Firs all of 15 ft. circ (perhaps 20).



Howell Mt., 1898

- Jan. 4. Sanitarium to Anguinis Meadows. Slopes above Sanitarium: Brush of Adenostoma mainly, here Digger Pine also. Also Baccharis, Manzanita, (Arc. Manzanita), Scrub Quercus Wislizenii, occasional Pinus ponderosa, Pellaea andromedifolia and Diplacus.
- Jan. 7. Howell Mt. & Echo Pt.
- Pinus ponderosa, Anguinis Meadows, 11½ ft. girth at 4 ft. from ground. 70 ft. high.
- Douglas Fir, 14½ ft. circ at 4 ft.
- South of Anguinis Meadows towards the Hess place (Echo Pt.) a fine forest of Pinus ponderosa and Douglas Fir Trees of ponderosa = 100 ft. high.

Bear Valley, Nevada Co.
alt. 4500 ft. 20-22 July, 1898.

Spiranthes Romanzoviana. July 21.
Brodiaea grandiflora. July 21.
Carollus cordulatus. July 20.
" integerrimus " "
Rhamnus ameanaefolia Greene.
Polygonum douglasii Greene. July 20.
" bistortoides Pursh. " "
Sphaguea umbellata Torr. " "
Angelica Breweri Gray " 22.
Amelanchier alnifolia Nutt. " 20.
Pentstemon azureus Bth.



Summit Sta., Nevada Co.

No. 160a. Arabis platysperma Gray. Summit, Nevada Co., July, '98.

– Cont. from p. 85. "Toll House" July 4, of my labels is between Bower Cave and Hazel Green. I judge it is the "Stage Station" of Yosemite sheet (U.S. Geol. Sur.) –
W.L.J.,
1933.

Lecture Excursion to Santa Cruz Mts

- In my early years, through the interest of Professor E. J. Wickson, I was sent into the Santa Cruz Mts. to some local settlement, to talk to an organization on the wild flowers. I chose to talk about the broad venal effects of color, often produced by the tiniest plants and tiniest flowers, and yet so massed as to be visible for miles. I have no contemporary record of that trip. My reception was very hospitable and I was kept over night by someone. On page 89 ante there is the note for "June 23, 1897: Santa Cruz Mts., Gleyland, Wrights", which sounds all right for the locality, but seems now too late. Should rather be about 1892 or 1893. I took with me the finest sheets of flowering plants possible from the herbarium, beautifully mounted. [— 12-16-'37].

It was the first time I ever went out anywhere to lecture to the general public on botany. My memory insists it was somewhere about 1892. See next page.



- "Horseshoe Band, Mariposa Co." near Coulterville. On one of my Rhamnus opuns. I find Horseshoe Bend. This is a bend in the Merced River. In 1896 we traveled the road from La Grange to Coulterville; but I do not recall that we went by the much longer and more southerly way, but rather by the northerly fork which is the direct road today. — W.L.J., 1938.

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Cont. from bottom p. 136b. However, it seems, now, on reflection that it was after E. L. Greene left California in 1895 about June. I was at Harvard in the fall of 1896. So perhaps 1897 is right. But my memory of the event is that I was extremely timid about expressing myself; therefore 1892 were better. — 1897 is doubtless correct. Greene had left.

## Trips in the Vaca Mts.
## in 1890, 1891, 1892.

– May 17, 1892. Pine Peak summit. cf. label of Plagiobothrys nothofulvus no. 21,153.

– Mar. 11, 1890* Signal Sta via ? Walker Cañon. cf. Plagiobothrys nothofulvus, no. 21,150.

– Mar. 11, 1891. Head of Walker Cañon, a mile or so south of Pine Peak. This is the notation on my scratch label of Mimulus douglasii and I believe it to be correct as to year date and no doubt at all about month and day. I marked the year "1890" on my finished label but this was plainly a slip. My calendar book shows no collecting to speak of for spring of 1890. It was an incredibly wet year – a wet winter – and very difficult to get anywhere, and I was closely occupied at Little Oak. But see p. 138.

* The scratch label reads "1890" but it must have been 1891. It is pretty certain I did not go into the Vaca Mts. at all in spring of 1890.



## July, 1898, Bear Valley, Nevada Co.

– Ranunculus flammula var. inter-medius Hook.

– R. arthorhynchus Hook

– Spiranthes romanzoviana Cham. July 21.

– Quercus Kelloggii – near Dutch Hill or below I noticed a hillside of fire-killed young Pinus ponderosa but the fire that ran through had not killed a Kellogg Oak. Is this oak resistant to fire more than other trees?

† Broad-leaf

# Summit, Nevada Co.

Alt. 7018 ft. July, 1898.

- Pinus monticola. Long cone; rectangular plates, rather deeply fissured, a little like an oak trunk; trees 50 ft. h.; 5 needles; whip-lash branchlets.
- Leanothus velutinus Dougl.
- Lonicera conjugialis Kell.
- Arenaria capillaris Pois.

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Cont. from p. 136d. **Walker Cañon**

Mar. 11, 1890. Pedicularis densiflora BH. Clearly written on a printed Vaca Mountains label: "Near head of Walker Cañon". See no. 21, 547.



# Apr. 19, 1899.

- Vegetation on the eastern side of the Oakland Hills.
- Kellogg Black Oak near Glorietta
- Douglas Blue Oak " "
- Valley Oak " "
- The dense clumps of trees hang to the eastern or particularly north-eastern side of the hills, sharply limited as seen in many cases near the coast. The density and sharp bounding of these clumps is very noticeable but is unknown in the Inner Coast Ranges. One can look up a cañon running north and south and see the Laurel densely clumped all over the abrupt east wall, the wall facing the west being brown.
- Distegia abundant along streams.
- Psoralea physodes is very common.
- Bracken very thick on open hillsides cañons at Las Trampas

# Red Bluff to Crane Creek

- Digger Pine, 9.9 ft. circ. at 4 ft., 80 ft. high. I did not find any 4 ft. in diameter, another was 10 ft. at 5 ft. and 60 ft. high.
- Quercus Douglasii, all over the hills about Rosewood, rotting from top, twiggy all over trunk and branches. Rotten branches, fallen from top of trees, lying thick under trees. One tree on flat 9.8 ft. circ. at 5 ft., 60 ft. h!
- Cynoglossum grande Dougl. Crane Creek and Rosewood
- Ranunculus hebecarpus "
- Eriodictyon glutinosum "
- Brickellia California "
- Sanicula Menziesii H&A. "
- Pipe Vine - said to be at "Hunters"
- Vitis California, in creek short and stubby
- Silene Californica Durand.
- Salvia Columbariae Bth.
- Calochortus pulchellus Dngl.
- Lathyrus sp.



# and Stivers Ranch, Apr. 24-25, 1899.

H.F. (Crane Creek).

- Alhysanno pusillus Greene.
- Stylocline filaginea Gray
- Balsamorrhiza Hookeri Nuttall.
- Astragalus, sp.
- Brodiaea hyacinthina.
- Mimulus sp.
- Gilia sp.
- Gilia bicolor (Nutt.).
- Plantago Patagonica
- Calandrinia ciliata var. menziesii
- Valerianella sp.
- Sagina apetala Ard. var. barbata.
- Ranunculus macrocarpus
- Gilia filipes.
- Lotus sp.
- Brodiaea multiflora Benth.
- Mirabilis Greenei, Wats.
- Potentilla dancifolia Greene.
- Delphinium variegatum T.&G.

## Crane Creek and Rosewood
Stairs Ranch.; Tehama Co.

- Platiplenum californicus
- Microseris sp.
- Rectocarya sp. = P. penicillata A. DC (no. 21,090).
- Filago sp.

### Apr. 25, 1899.

- Cryptantha sp. = C. rostellata Greene. no. 21,114.
- Valerianella sp.
- Troximon sp.
- Allium sp.
- Ranunculus sp.
- Castilleia sp.
- Collinsia sp.
- Trifolium columbianum Greene.
- Sidalcea Hartwegi Gray
- Astragalus nigrescens Nutt.
- Phacelia
- Plagiobothrys tenellus Gray. no. 21,149.
- Thysanocarpus elegans F. & M.



## April 26, 1899.

- Convolvulus sp.
- Lupinus albifrons Bth.
- Gilia dichotoma (Bth.)
- Sisyrinchium bellum
- Zygadenus Fremonti in fruit.
- Oenothera mollis.
- Rhus diversiloba - not abundant.
- Ceanothus cuneatus Nuttall - the fruits eaten by hogs they say.
- Quercus Douglasii, the only oak hereabouts practically except a few Valley Oaks along water-courses. No regularity about acorn crops. High north gales this year whipped off branchlets. There may be seen on ground scattered over hillsides.
- Buckeye, a little, Rhamnus californica, Cercocarpus, & there two a little.
- Digger Pines - up to 70 feet h.

# Dry Creek, Salt Creek, Winneshaw*, Cold Fork**, Salt Gulch, Greasewood Hills and return to Rosewood

(W. Tehama Co.)

* Proper spelling = Wimmeshaw I think. cf. p. 148 seq.

- Salix sp. — Valley Oaks 75 ft. h. on stream banks. Cold Fork
- Floerkea sp. — Rumex crispus, Cold Fork.
- Baeria sp. — Juniper, Salt Creek
- Ceanothus cuneatus, for more abundant, Winneshaw.
- Cheiranthus sp.
- Paeonia sp. — Blue Oak common over all the hills with little Digger Pine - Winneshaw.
- Alnus rhombifolia Nutt.
- Eschscholtzia sp. — Buckeye - some, Salt Creek.
- Lupinus sp. — Ash, Oregon on Salt Creek
- L. densiflorus.
- Delphinium sp. — Berberis on Winneshaws.
- Burriela microglossa DC.
- Oenothera graciliflora H. & A.
- Salix spp.
- Platystemon Californicus Benth.
- Arctostaphylos spp.
- Chorizanthe membranacea Benth.
- Peucedanum carnifolium, most common. (** of Cottonwood Creek.



# April 27-28, 1899.

- Alnus rhombifolia, Cold Fork.
- Hydrophyllum occidentale.
- Gilia multicaulis
- Thalictrum
- Ribes malvaceum Smith.
- Garrya Fremonti
- Rumex salicifolius, Salt Creek bed.
- Heliotropium Curassavicum, " " "
- Eriogonum nudum - on dry hills in leaf only.
- Chenopodium album - good for greens, grows only where you cult. the ground.
- Gilia tricolor, G. androsacea.
- Prilocarpus tenellus.
- Red Bud, used in wire fencing on (Cercis occid.) as posts Salt Creek.
- Black Oak acorns eaten by bears on Greasewood grade.
- Verbascum Thapsus by irrigating stream in Cold Fork
- Digger Pine, 3½ ft. diam., Cold Park.
- Populus Fremonti, 70 or 80 ft. high.
- Matricaria discoidea, Cold Fork (towards Greasewood Hills)
- Lepidium nitidum " " "
- Wild Plums (Prunus subcordata) grow above here acc. to Stephenson at Cold Fork.

South Fork, Manzanita Flat, Dibble Creek. (W. Tehama Co.).
(Cottonwood Creek,

- Brodiaea hyacinthina
- Baeria sp.
- Malacothrix obtusa Benth.
- Odontostomum Hartwegi.
- Senecio aronicoides - South Fork
- Quercus wislizenii - " "
- Brodiaea hyacinthina on hills, " ",
- Agoseris. among Douglas oak.
- Baeria.

- Artemisia heterophylla - Prince shaw.
- Ceanothus cuneatus - Salt Creek.
- Cornus Torreyi (same as Lake Co. plant!) - Cold Fork
- Manzanita in rain dress - painted with red paint.
- Chenopod. Calif. - Salt Creek.
- Ash. - Salt Creek.
- Horehound - common about the settlements,
- Verbena prostrata - Salt Creek Salt Creek.
- Erodium cicutarium - " " - common and the only Erodium
- Buckeye - Salt Creek.
- Juniper - first seen on Salt Creek. (J. Calif.)
- Squaw bush, Rhus trilobata, in trip to Cold Fork, " "
- Heterocodon rariflorum, " " " "
- Mimulus nasutus, " " " " "
- Fritillaria rutica, " " " " "
- Geranium Carolinianum " " " " "
- Yarrow, " " " " "



Apr. 29, 1899.

[In the brane creek bottom, Stivers Ranch, there is a queer tree of Pinus Sabiniana, lateral limb about 7 ft. from ground, 1 1/3 ft. through, the end with the branches twisted back on itself, one below, two above, one at the end, forming a perfect knot, the whole forming a tree on the ground by the larger one (10 ft. away), 20 ft. high and surprisingly thick foliaged and vigorous. Mr. Stivers suggested a piece of drift-wood as a proximate cause.]

- Digger Pines and Douglas Oaks, 2-ranked branching, very noticeable and common. Digger Pine with surface roots. Douglas oak with tap root.

# Red Bluff

- Baeria sp.
- Lupinus micranthus.
- Lotus subpinnatus
- Eriophyllum speciosum Greene.
- Salix sp.
- Trifolium amplectens T. & G.
- [Winmeshaw is plainly so spelled on the field cover of Phacelia distans as written in the field. I do not now recall whether the name represents a valley or gulch or creek or settlement. — W.L.J. 4-27-39

[I went out to Crane Creek with a Mr. H. F. Stivers, brother of Lieut. Stivers, U.S.A., who collected Lupinus Stiversi Kellogg. The Stivers Ranch is on Crane Creek and not far from the Rosewood P.O. Young Stivers took me up to the Greasewood Hills west via Dry Creek,



Apr. 30, 1899.

Salt Creek, Winmeshaw, Cold Fork Cottonwood creek, Salt Gulch, Greasewood Hills and return to Rosewood. This was Apr. 27-28. On Apr. 29 went back to Red Bluff via South Fork Cottonwood Creek, Manzanita Flat and Dibble Creek. On the night of Apr. 27 we stopped at Stephenson's Ranch, a little settlement; this was Cold Fork Cottonwood Creek. — Lieutenant Stivers' initials, according to Proc. Cal. Acad. vol. 2, p. vii, are "Charles H." In this volume Kellogg published this Lupinus Stiversii after Mr. Stivers; see p. 192. [Stivers is a rather uncommon name, I should say. In the expedition of John J. W. Audubon to California the company list shows William D.

— Cont. p. 150 —

# Willows. Glenn Co.

- Pogogyne ziziphoroides Benth.
- Gilia leucocephala Benth.
- Cryptantha (Allocarya) sp. stipitata no. 21,182
- Navarretia nigellaeformis Greene.
- Phacelia ciliata Benth.
- Pogogyne Douglasii Benth.
- Lepidium sp.
- Erodium macrophyllum Hf A
- Tissa leucantha Greene.
- Bolelia elegans Greene.
- Atriplex fruticulosa Jepson
- Plantago Bigelovii Gray.
- Godetia purpurea Curtis.

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-Cont. from p. 149.-

Stivers and Daniel A. Stivers. See p. 243, Audubons Western Journal, edition by Arthur H. Clark, Cleveland.) The initials are C. A. Stivers (cf. Jepson Correspondence, 26: 357.



# May 1, 1899.

- Trifolium olivaceum Greene
- Gilia cotulae folia Steud.
- Gilia nigellae formis (Greene).
- Valerianella sp.
- Atriplex spicata Wats.
- Thelypodium rigidum Greene.
- Orthocarpus purpurascens Ch.

## On Alkali. Willows town.

- Centromadia rudis
- Atriplex expansa
- " spicata
- Lepidium latipes
- Lepidium sp.
- Navarretia spp.
- Frankenia grandifolia C. & S.
- Atriplex fruticulosa
- Plantago Bigelovii
- Tissa leucantha Greene.

No. 175 a. Juncus balticus Willd. group. Det. F.K.C.
Vacaville, May 2-4, 1899.

No. 175 b. Valerianella macrocera
Crane Creek, w. Tehama Co.,
Apr. 25, 1899.

No. 177 a Amelanchier ~~florida~~ pallida Greene & Bear Valley, Nevada Co., 20 July '98.

No. 178 a. Amelanchier ~~alnifolia~~ pallida Nutt.
Bear Valley, Nevada Co., 20 July '98.

No. 178 b. Physocarpus emarginatus
Greene. Crane Creek, w. Tehama Co.,
25 Apr., 1899.

No. 178 c. Tropidocarpum gracile Hook.
Salt Creek, w. Tehama Co., Apr. 27, '99.

No. 178 d. Alyssum pusillum Greene.
Rosewood, Tehama Co., 25 Apr. '99.

No. 178 e. Erysimum asperum DC.
Winnemucca, w. Tehama Co., 27
Apr. 1899.

No. 178 f. Garrya flavescens var. veatchii
Jepson. Greasewood Hills.

No. 179 f. Layia ~~heterotricha~~ fremontii (T. & G.) Gray Jepson. Red Bluff,
30 Apr. '99.



Berkeley, Feb. 25, 1899.

- Alnus rhombifolia Nutt.
Trunk not mottled. Main
stem or branches very straight,
branches spreading, very twiggy,
the twigs slender. Twiggy growth
gives a fine appearance to the
top of the tree.

- Quercus lobata at Santa
Rosa. On north hillsides, in
leaf for three weeks, at least since
March 12!! In valley, foliage
not yet out! — Mar. 28, 1899.
M.S. Baker.

Berkeley, May, 1899.

– Dr. Albert Kellogg's drawings of oaks are in the Bohemian Club Library — W.A. Setchell. Doubtless deposited there by Captain James McDonald, who published "First American Oaks"; a member of the Club.

– Fremont, account of Sac. valley plants, Sen Expl. Exped. to Calif. 1851, p. 351 et seq.

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– Cont. from p. 13. According to an original manila label (On June 17, 1891) I collected Scrophularia californica "Near Vanden. Point of the Arequipa Hills", which I later used the old name Pellejo Hills (the hills south of Pigeon Point). (North of and including Pigeon Point = Arequipa Hills).



Berkeley, Feb. 1900.

– Juniperus Californica. "Used for fence-posts between San Benito and Bitterwater. Looks like Redwood. Some of them were split-" — Fred. Hermann.

– Surveyor's Marks on Trees. A surveyor marks a tree with 3 blazes on a line running through a tree — the blazes fore and aft. If a corner falls between three trees they locate the corner, a note in their record a black oak bearing 32° east of n., blaze the same and mark it with an iron stencil, a second tree bearing in another direction, a third in the same way; the corner was if marked

cont:
may become obliterated but the point may thus be relocated. — Fred Hermann, Apr. 1900.

Mt. Oak, Post-Oak, Pin Oak, are names used by surveyors to designate trees bearing corner marks. — Fred Hermann.

— The Madrone has always made so strong an appeal to my esthetic sense while in the Napa Rouges that I have never looked at the tree botanically in any sufficient way, but I am now doing so — thus making it no exception.

— Pleuricospora fimbriolata Gray.

Upper bracts with 2 ligulate lobes at base. Lower fls. on pedicels 1/2 inch long, upper sessile. Calyx-lobes 5, ciliate;



petals 4; stamens 8. Sepals 1/2 to 3/4 as long as the petals, unequal, the upper carinate.

Another flower: Sepals 4; petals 4, longer than the sepals decidedly; stamens 8, only about as long as petal (surpassing little). Calyx choripetalous; corolla choripetalous. — Hazel Green, 5 July 1897. See p. 86.

See note * p. 161.

# Lupinus Collection

No. 1t. L. ~~Gallii Gray var. Lobbii~~ Lobbii Gray ex Greene C.P. Sm. Bear Valley July '98

No. 2t. L. formosus Greene.

No. 3t. L. bicolor ssp tridentatus Lindl. July 31, '96, Berkeley Hills Crane Creek, Tehama Co. 25 Apr. '99

No. 4t. L. formosus Greene. Red Bluff, 30 Apr. '99

No. 5t L. ~~nanus Dougl.~~ subvexus C.P. Sm. det. C.P.S. Salt Creek, Tehama Co., 28 Apr. 99.

No. 6t. (Discarded) L. albifrons Lemon Cove, 18 June '00

No. 7t. L. albifrons Bth. Berkeley, Mar. 27, '96

No. 8t. L. albicaulis shastensis Upton, Aug. '94

No. 9t. L. lepidus Dougl. var. Forreyi Jepson. (Sugar Loaf = Black Butte) Det. C.P.S. = L. confertus Kell. Sugar Loaf near Sisson, Aug. '94.

No. 10t. L. micranthus Dougl. var. polycarpus Little Oak, May 15, '96.

No. 11t. L. grayii Wats. Hazel Green, July '96

No. 12t. ? L. subvexus Sutter City, 20 Apr. '91

No. 13t. L. bicolor ssp. microphyllus Lindl. det. C.P.S. Sutter plains, " "

No. 14t. L. nanus var. apricus C.P. Sm. Gates Cañon, Vaca Mts. 25 Mar. 1892.

No. 15t. Franz Valley, 1 May 1893.

No. 16t. L. polyphyllus Lindl. Sisson, July '94.

No. 17t. L. ~~microcarpus Sims var.~~ densiflorus Jepson Weldon Cañon, Vaca Mts. 1 June '91

No. 18t. L. formosus Greene. Livermore, May '91

No. 19t. L. albifrons Bth. Rough and Ready, Apr. 13, '92

No. 20t. L. nanus Dougl. Yountville, 26 Apr. '93

No. 21t. L. succulentus Dougl. Vacaville, Mar. '92

No. 22t. L. nanus var. apricus C.P. Sm. e. of Calistoga, May 2, 1893.



No. 23t. Lupinus microcarpus Sims var. densiflorus Jepson. L. densiflorus var. aureus Livermore Valley, May 1891.

No. 24t. Lupinus polyphyllus Lindl. Howell Mt. June 26, 1893.

No. 25t. L. latifolius Agardh. Berkeley, Apr. 1891.

No. 26t. L. latifolius Agardh. St. Helena, Apr. 24, '93

No. 27t. L. arborens Sims, Corallitos, Santa Cruz Mts., 16 June 1896.

No. 28t L. arborens Sims. Glen Echo, Santa Cruz Mts. 17 June, 1896.

No. 29t L. nanus Dougl. St. Helena, 24 Apr. 1893.

No. 30t. L. nanus var. apricus C.P. Sm. Red Bluff, 30 Apr. 1899.

No. 31t. L. bicolor Lindl. ssp. tridentatus Mill Valley, 10 Apr. 1897.

No. 32t. L. bicolor ssp. tridentatus St. Helena, 2 May, '93.

No. 33t. L. polyphyllus Lindl. → Bear V., Nevada Co. 20 July '98.

No. 34t. L. nanus Dougl. var. carnosulus C.P. Sm. Mill V., 10 Apr. '97.

No. 35t. L. albifrons Bth. Howell Mt., June 26, '96.

No. 36t. L. formosus Greene. Red Bluff, 30 Apr. '99.

No. 37t. L. chamissonis Esch. S.F., 20 May '91.

No. 38t. L. variicolor Steudl. " " " "

No. 39t. L. arborens Sims. " " " "

No. 40t. L. chamissonis Esch. " " " "

No. 41t. L. polyphyllus Lindl. Bear V., Nevada Co. July '98.

No. 42t. L. ~~laxiflorus Dougl.~~ arbustus ssp. silvicola Summit - Nevada Co. July 1898.

No. 43t. L. formosus Greene. Denverton, 30 May, 1891.

No. 44t L. polyphyllus Lindl. Howell Mt. June 26, 1893.

No. 45t. L. latifolius Agardh var. viridifolius Mt. Shasta, Aug. '94.

** see p. 161. ~~Barbatus Jepson.~~

# Lupinus Collection

No. 46t. L. densiflorus palustris — Alameda, 10 May, '91.
No. 47t. L. polyphyllus Lindl. — Sisson, '94.
No. 48t. L. formosus Greene. — Howell Mt., 7 May, '94.
No. 49t. L. bicolor ~~var. trifidus~~ Lindl. — Alameda, 10 May, '91.
No. 50t. L. nanus Dougl. — " " "
No. 51t. L. albifrons Bth. — Marysville Butte, 20 Apr. '91.
No. 52t. L. latifolius Agardh. — Vaca Mts., 20 June, '92
No. 53t. L. albifrons Bth. — e. of Calistoga, 20 May, '93.
No. 54t. L. albifrons Bth. — w. of St. Helena, 25 Apr. '93.
No. 55t. L. formosus ~~bridgesi~~ Greene. — San Joaquin Co., Det. C. P. Sm. 27 June '96.
No. 56t. " " " — " " " " " "
No. 57t. L. lyallii Gray var. ~~lobbii~~ Danaus wats. C. P. Sm. — S. Yollo Bally, 24 July '97.
No. 58t. L. latifolius Agardh. — " " "
No. 59t. L. laxiflorus Dougl. — Summit, Nevada Co., July 1898
No. 60t. L. nanus Dougl. — St. Helena, May 2 1897.
No. 61t. L. bicolor ssp. microphyllus — St. Helena, " "
No. 62t. L. variicolor Stend. Det. C. P. S. — S. F., 20 May '91.
No. 63t. L. arborens (L. variicolor Stend. acc. W.L.J.) Det. C. P. S. — Pacific Grove 8 Aug. 1896.
No. 64t. L. grayi Wats. Det. C. P. S. — Bower Cave, July 1896
No. 65t. L. longipes (to Hazel Greene) (L. latifolius, det. W.L.J.) Det. C. P. S. — Merced Big Trees July 6, 1896
No. 66t. L. succulentus Dougl. Det. C. P. Smith. — N. Berk., 28 Mar. '96.
No. 67t. L. obtusilobus Det. C. P. S. — Mt. Shasta. Aug. 4, '94.



No. 68t. L. longipes Det. C. P. S. — Bower Cave, July, '96.
No. 69t. L. formosus Greene. — Sept. 24, 1893, Howell Mt.
No. 70t. L. arborens Det. C. P. S. — Glen Echo, Santa Cruz, 17 June, 1906.
No. 71t. L. formosus Greene — St. Helena, 2 May 1897.
No. 72t. L. nanus var. apricus C. P. Sm. — Little Oak, 15 May 1896 Solano Co.

For C. P. Smith's determinations of Lupinus, see his letter Feb. 9, 1923.

*. These specimens were first numbered 1l, 2l, 3l etc. When "l" is type on the typewriter we have in such case 11, 21, 31, etc. To avoid error, the "l's" were changed to "t's".

** Cont from p. 159. No. 45t. Cited as var. barbatus in Fl. Cal. 2: 260

## Solano Co. plains

### native vegetation.

- Godetia quadrivulnera Spach. Main Prairie
- Grindelia campestris Greene
- Achyrachaena mollis Schauer.
- Lomatium utriculatum (cf. T.B. Mun. Vanden. 1936).



## Mimulus Collection

(Greene) Grant: Det: A.L.G. West Berkeley 25 apr. '91

No. 1 m. Mimulus guttatus DC. var. arvensis

No. 2 m. Mimulus guttatus DC. Det: A.L.G. Bear Valley, nev. Co. July '98

No. 3 m. Mimulus nasutus Greene. Det: A.L.G. Ross Valley, 5 apr. '92.

No. 4 m. Mimulus guttatus DC. Det: A.L.G. Howell Mt. Park. 24 apr. 93

No. 5 m. Mimulus nasutus Greene. Det: A.L.G. Calistoga, 1 May 93.

No. 6 m Mimulus nasutus Greene. Det: A.L.G. "

No. 7 m. Mimulus nasutus Greene. Det: A.L.G. Napa Range East of Calistoga 2 May, 93.

No. 8 m. Mimulus nasutus Greene var. insignis (Greene) Grant: Det: A.L.G. Yountville 26 apr. 93.

No. 9 m. Mimulus nasutus Greene var. insignis (Greene) Grant: Det: A.L.G. Napa Range, on wooden V. grade, 28 apr. '93

No. 10 m. Mimulus guttatus var. arvensis (Greene) Grant. Det: A.L.G. Howell Mt, 8 May '93.

No. 11 m Mimulus guttatus DC. Var. arvensis (Greene) Grant. Det: A.L.G. Howell Peak Range west of St. Helena, 25 apr. 1893.

No. 12 m. Mimulus nasutus Greene var. micranthus (Heller) Grant: Det: A.L.G. Yountville, 26 apr. 93.

No. 13 m. Mimulus nasutus Greene. Det: A.L.G. Calistoga. 1 May 1893.

No. 14 m. Mimulus guttatus DC. Det: A.L.G. Big Hanes Mt Lake Co., 1892.

No. 15 m. Mimulus guttatus DC. Det: A.L.G. Marysville Buttes 20 apr. 1891.

No. 16 m. Mimulus nasutus Greene. Det: A.L.G. "

No. 17 m. Vaca Mts. 17 May 92.

# Mimulus Collection, cont.

No. 18 m. Mimulus guttatus Dc. Det: A.L.G. Plumas Co. Platt.

No. 19 m. Mimulus nasutus Greene. Det: A.L.G. 15 Marysville Buttes 20 Apr. 1891.

No. 20 m. Mimulus guttatus Dc. Det: A.L.G. Bear R., Nevada Co. July 1898.

No. 21 m. Mimulus guttatus Dc. Det: A.L.G. Sisson, July '94.

No. 22 m. Mimulus bolanderi var. brachydontus Grant. Det: A.L.G. Mt. Konocti 1892

No. 23 m. Mimulus bolanderi var. brachydontus Grant. Det: A.L.G. "

No. 24 m. Santa Cruz Mts. 1896.

No. 25 m. Mimulus cardinalis Dougl. Det: A.L.G. Vaca Mts. 13 Sept. 91

No. 26 m. Mimulus cardinalis Dougl. Det: A.L.G. Washington Flat, Calaveras Co. 5 Aug. 1890.

No. 27 m. Mimulus floribundus Dougl. Det: A.L.G. Santa Cruz Mts. 1896.

No. 28 m. Mimulus Kelloggii Curran. Det: A.L.G. Hood's Peak Range west of St. Helena, Camp Cabin, 25 Apr. 1898

No. 29 m. Mimulus Kelloggii Curran, Det: A.L.G. Napa Range E. of Calistoga, 2 May '93

No. 30 m. Mimulus Kelloggii Curran Det: A.L.G. Near Calistoga 2 May 1893.

No. 31 m. Mimulus latidens (Gray) Greene. Det: A.L.G. Lower Napa V. 1893.

No. 32 m. Mimulus latidens (Gray) Greene. Det: A.L.G. Montezuma Hills 14 May 1892.

No. 33 m. Mimulus latidens (Gray) Greene. Det: A.L.G. Vacaville '93 Apr.

No. 34 m. Mimulus Layneae (Greene) Jepson. Det: A.L.G. Horse-shoe Bend above Shasta Spgs. July-Aug. 1894.



No. 35 m. Mimulus Layneae (Greene) Jepson. Det: A.L.G. Howell Mt. 26 June '93.

No. 36 m. Mimulus Layneae (Greene) Jepson. Det: A.L.G. Shasta Spgs. Aug. '94.

No. 37 m. Mimulus nanus Hook. & Arn. Det: A.L.G. Yolla Bolly Mt. July '97.

No. 38 m. Mimulus floribundus var. subulatus Grant. Det: A.L.G. Coulterville, 2 July '96.

No. 39 m. Mimetanthe pilosa (Benth.) Greene. Det: A.L.G. San Andreas Aug. 4. 1890.

No. 40 m Mimetanthe pilosa (Benth.) Greene. Det: A.L.G. Mt. Konocti July, 1892.

No. 41 m. Mimetanthe pilosa (Benth.) Greene. Det: A.L.G. Sonora, 8 Aug. 1890.

No. 42 m. Mimulus moschatus Dougl. var. longiflorus Gray. Det: A.L.G. Cahto to Westport, 30 July '97

No. 43 m. Mimulus moschatus Dougl. var. sessilifolius Gray. Upper Sac. R. July-Aug. '94. Sisson.

No. 44 m. Mimulus moschatus var. longiflorus Gray. Det: A.L.G. Hazel Green July 5-6, 96

No. 45 m. Mimulus moschatus Dougl. var. longiflorus Gray. Det: A.L.G. Soldiers Ridge 24 July 1897.

No. 46 m Mimulus moschatus Dougl. var. longiflorus Gray. Det: A.L.G. Snowden Ranch Calaveras Co., 7 Aug. '90.

No. 47 m. Mimulus moschatus Dougl. var. sessilifolius Gray. Det: A.L.G. Howell Mt. 26 June 1893.

No. 48 m Mimulus moschatus Dougl. var. sessilifolius Gray. Det: A.L.G. Horse Mt., Lake Co. 1893.

No. 49 m. Mimulus moschatus var. sessilifolius Gray. Det: A.L.G. Mill Valley, 19 July '91.

No. 50 m. Mimulus moschatus Dougl. var. sessilifolius Gray. Gilroy to Santa Cruz grade, 1896.

No. 51 m. Mimulus moschatus Dougl. var. longiflorus. Gray. Bear Valley, Nev. Co. 20 July, 1898.

No. 52 m. Mimulus primuloides Benth. Det: A.L.G. Soldiers Ridge 24 July '97

# Mimulus Coll. cont.

No. 53 m. Mimulus primuloides Benth. Det: A.L.G. Sisson, July 1894.

No. 54 m. Mimulus breweri (Greene) South of Gallo Bally Colville. Det: A.L.G. 24 July 1897.

No. 55 m. Mimulus Pulsiferae Gray. Det: A.L.G. Sisson, July 1894.

No. 56 m. Mimulus breweri (Greene) Coville. Det: A.L.G. South Gallo Bally Det: A.L.G. 24 July '97.

No. 57 m. Mimulus Pulsiferae Gray. Bear Valley, Mer. Co. 21 July 1918.

No. 58 m. Mimulus Pulsiferae Gray. Det: A.L.G. Howell Mt., May 8, 1893.

No. 59 m. Mimulus pulsiferae Gray. Howell mt., " "

No. 60 m. Mimulus douglasii Benth. Det: A.L.G. Howell Mt. Forks. Mar. 13, 1893.

No. 61 m. Mimulus douglasii (Benth.) Gray. Det: A.L.G. Vaca mts. Mar. 11, 1890.

No. 62 m. Mimulus tricolor Lindl. Det: A.L.G. Vacaville May, 1891.

No. 63 m. Mimulus Kelloggii Curran. Det: A.L.G. Crane Creek. Tehama Co. Apr. 25, 1899.

No. 64 m. Mimulus Torreyi Gray. Det: A.L.G. Tuolumne Co. 1890.

No. 65 m. Mimulus subsecundus Var. visicidus (Congdon) Grant. Det: A.L.G. Coulterville, 3 July 1896.

No. 66 m. Mimulus nasutus Greene. Det: A.L.G. Weldon Cañon, E. Vaca mts. May 17, '92.

No. 67 m. Mimulus breweri (Greene) Colville. Det: A.L.G. Summit, Nevada Co., July, '98.

No. 68 m. Mimulus kelloggii Curran. Det: A.L.G. Vacaville, 1892.

No. 69 m. Mimulus Torreyi Gray. Det: A.L.G. Bear Valley, Mer. Co. July 21, '98.

No. 70 m. Mimulus Torreyi Gray. Det: A.L.G. " "

No. 71 m. Mimulus Layneae (Greene) Tekoa. Det: A.L.G. Swin & Sisson, 1894.

No. 72 m. Mimulus Bioletti Eastw. Det: A.L.G. Hazel-Green 5 July, '96.



No. 73 m. Mimulus nasutus Greene var. insignis (Greene) Grant. Det: A.L.G. Wooden Valley grade, Napa Range, 28 Apr. 1893.

No. 74 m. Mimetanthe pilosa (Benth.) Greene. Det: A.L.G. Coulterville, 2 July 1896.

No. 75 m. Mimulus aurantiacus Curt. Det: A.L.G. Monterey, 8/8/96

No. 76 m. Mimulus aurantiacus Curt. Det: A.L.G. Pacific Grove, 8/8/96

No. 77 m. Mimulus aurantiacus Curt. Det: A.L.G. Berkeley, 8/17/96

No. 78 m. Mimulus aurantiacus Curt. Det: A.L.G. Wooden Valley grade, Napa Range, Apr. 28, 1893.

No. 79 m.

## Willow Collection (Salix)

No. 1-s. Salix scouleriana Barr.
Bear Valley, Nevada Co. July 1898.

No. 2-s. Salix scouleriana Barr.
Summit, Nevada Co. July 1898.

No. 3-s. S. melanopsis Nutt.
Putah Creek, Sept. 17, 1887.

No. 4-s. S. melanopsis Nutt.
Ell River, July-Aug, 1892.

No. 5-s. S. melanopsis Nutt.
Miller Cañon, Yosa Mts. May 23, '97.

No. 6-s. S. hindsiana Benth.
Putah Creek, May 2-6, 1891.

No. 7-s. S. hindsiana Benth. With 6a.

No. 8-s. S. hindsiana Benth.
Red Bluff, 30 Apr. '99.

No. 9-s. S. hindsiana Benth.
Weldon Cañon, June 1, 1891.

No. 10-s. S. hindsiana Benth. var. leucodendroides (Rowlee) Ball
Ell River bed, Lake Co. 1892.

No. 11-s. S. eastwoodiae Ckll.
Summit, Nevada Co., July 1898



No. 12-s
Bear Valley, Nevada Co. 1898.

No. 13-s.
Olema. Mar. 28, 1897.

No. 14-s. S. laevigata Bebb.
Moraga Valley, Apr. 19, 1899.

No. 15-s. S. goodding ii vallicola (Dudley) Ball
Hardings Ldg, Eel River, Apr. 1891.

No. 16-s. S. laevigata Bebb.
York Creek, St. Helena, Apr. 29, '93

No. 17-s. S. laevigata Bebb.
Araquipa Hills, Solano Co., 1891.

No. 18-s. S. laevigata araquipa (Jeps.) Ball
Salt Creek, Tehama Co., Apr. 27, 1899.

No. 19-s. S. laevigata Bebb.
Cold Fork Cottonwood, Tehama Co., Apr. 25 1899.

No. 20-s. S. laevigata Bebb.
Howell Mt., May 8, 1893.

No. 21-s. S. laevigata Bebb.
Alamo Creek, Solano Co., 1892.

No. 22-s. S. laevigata Bebb.
Randolph Flat, Apr. 15, 1892

No. 23 s. S. scouleriana Barr.
Oakland Hills, Mar. 5, 1892

No. 24 s.
Rough & Ready, Nevada Co., Apr. '92

No. 25 s. S. gooddingii vallicola (Dudley) Ball
Red Bluff, 30 apr. '99.

No. 26 s. S. gooddingii vallicola (Dudley) Ball
Near Lemm Cove, June 18, 1900.

No. 27 s. S. breweri Bebb.
Middletown grade, Mt. St. Helena, 1893.

No. 28 s. S. laevigata Bebb.
Rough & Ready, Nevada Co., Apr. 1892.

No. 29 s.
Howell Mt. May 8, 1893.

No. 30 s.
Ross Valley, Mar. 23, 1896.

No. 31 s. S. scouleriana Barr.
Vacaville, 1899.

No. 32 s.
St. Helena, Mar. 13, 1893.

No. 33 s. S. laevigata Bebb.
Marysville Buttes, Apr. 20, 1891.



No. 34 s.
Jolon, Monterey Co., June 1901.

No. 35 s.
Ross Valley, Mar. 23, 1896

No. 36 s. S. laevigata Bebb.
Berkeley, May 17, 1891. (set).

No. 37 s.
Berkeley, March 24, 1891.

No. 38 s.
Berkeley, 1891.

No. 39 s. Co-type of S. laevigata araquipa
det. C. Schn. Araquipa Hills, Solano Co., May 2-6, '91

No. 40 s. S. lasiandra
det. C. Schn. Bolinas & Pt. Reyes. Shoots from a wood-pile! the shoots appeared after the sticks had been quartered.

No. 41 s. S. laevigata Bebb.
det. C. Schn. Alamo Creek, Solano Co., Sept. 1891

No. 42 s. S. ~~sessilifolia~~ Hindsiana Benth.
Salt Creek, Tehama Co., Apr. 27, '99.

No. 43 s.
Summit, Nevada Co., July 1898

# Potentilla Collection

No. 100 p. P. dancifolia Greene var. Crane Creek, w. Tehama Co., 25 Apr. '99.
No. 101 p. P. elata Greene. Tunis Mill, Lake Co. July-Aug. '92.
No. 102 p. P. gracilis Dougl. Sisson. July '94.
No. 103 p. P. tridentata Torr. Soldier's Ridge near South Yolla Bolly. July, 1897.
No. 104 p. P. elata Greene. Middle Eel River, North Fork
No. 105 p. P. cuneata Baill. Santa Cruz Co., Corallitos. 17 June 1896. = P. lindleyi Greene.
No. 106 p. Potentilla multijuga Lehm. P. cuneata Baill. Carmel Mission, Aug. 10, 1896. = P. Kelloggii Greene.
No. 107 p. Potentilla bipinnatifida Tennessee Pass. Colorado, Aug. '96.
No. 108 p. P. californica Greene. Berkeley. Aug. 17, 1891.
No. 109 p. P. elata Greene. La Grange, July 1, '96. var. dissita Crum.
No. 110 p. P. elata Greene. Bower Cave. Var. dissita Crum.
No. 111 p. P. carmeliana Jepson. Carmel River, 10 Aug. '96. (= P. californica Greene).
No. 112 p. P. cuneata Baill. 17 July '96. Corallitos. = P. lindleyi Greene.
No. 113 p. P. glandulosa Lindl. " "
No. 114 p. P. " " var. nevadensis Wats. Bear Valley, Nevada Co., July, 1898 (see p. 173).
No. 115 p. P. bolanderi Greene. Mt. Konoch. July, 1892.
No. 116 p. P. bolanderi Greene. Mt. Hanna. 15 July 1897.
No. 117 p. P. bipinnatifida Tennessee Pass, Rocky Mts., Aug. '96.
No. 118 p. P. californica Greene. Niles. 20 June 1897.
No. 119 p. P. tridentata Jepson. Bear Valley, Nevada Co., 20 July, '98. 4500 ft.
No. 120 p. P. tridentata (Torr.) Jepson. Sisson, in 1894.



No. 121 p. P. fusca Jepson = P. douglasii Greene. Bear Valley, Nevada Co., July 1898, 4500 ft.
No. 122 p. " " " " "
No. 123 p. " elata Greene. Tunis Mill, Elk Mt. n. Lake Co., Aug. '92.
No. 124 p. P. elata Greene. Howell Mt., Sept. 24, '93.
No. 125 p. P. glandulosa Lindl.* Eva sta., Santa Cruz Mts., June 23, '96 (formerly "Forest Grove")
No. 126 p. P. glandulosa Lindl. Bear Valley, Nevada Co., July 1898; 4500 ft.
No. 127 p. P. glandulosa Lindl. La Lomita, near Yountville, 26 Apr. '93.
No. 128 p. P. glandulosa Lindl. Castle Peak, ne. Mendocino Co., 24 July '97. = var. nevadensis Wats.
No. 129 p. P. glandulosa Lindl. Berkeley Hills 18 May 1891.
No. 130 p. P. glandulosa Lindl. Gater Cañon, Vaca Mts., 17 May, 1892.
No. 131 p. " " June 1892
No. 132 p. P. glandulosa Lindl.? South Yallo Bally, 24 July 1897. = var. pumila Jepson.

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Nos. 103 p and 120 p. Potentilla congesta var. tilingii.

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* = var. wrangeliana Wolf.

** = var. reflexa Greene. No. 114 p.

# Berkeley

- "Cupressus macnabiana at home", Purdy in Gard. & For. ix, p. 233.
- Flora of the Cal. Coast Range, Purdy, l.c. p. 192.
- Mendocino Coast Barrens, l.c. p. 213.
- Chemise. The Chemise World, Purdy, Gard. & For. X, 72, 83.
- Ceanothus. Ceanothus in the Landscape of the Sierra Nevada, Hansen, l.c. X(?), 102
- Ukiah Valley, Flora of, Purdy, l.c. X, 223
- Madrona. [at Ukiah], Purdy, l.c. X. 283.



# 1898.

- Umbellularia californica. Tree of this in Strawberry Cañon near bridge, loaded with fruit this year — great display, never saw the like before! Fruits from Mill Valley, now in my office, brightly colored — cherry red!! The red of Gov. Wood say, not Tartarian red. Some of course have turned brown! — Nov. 13. 1898.

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— Rhus rhombifolia vs. Rhus rubra. The bounds of the two species. I have never found them together. Remarkably true, yet approaching closely. Rhus rhombifolia is of sheltered wooded canons of the dry interior; yet it comes west through the hills from Mt. Diablo to (Cont. p. 180)

# Monte Diablo

## Mitchell Cañon

- Rhamnus crocea, 12 ft. h.
- Ptelea trifoliata - 10 ft. h., straw-yellow samaras. brush-like.
- Ceanothus sorediatus H. & A.
- Populus trichocarpa
- Vitis Californica Bth.
- Rubus vitifolius C. & S.
- Rhamnus californica, 12 ft. h.
- Artemisia heterophylla
- Rhus trilobata.
- Heteromeles arbutifolia
- Rosa Californica
- Umbellularia Californica, note the turnid cup-like base to the fruit.
- Acer macrophyllum
- Rhus diversiloba
- Symphoricarpos racemosus



# Oct. 18, 1898.

- Diplacus glutinosus Nutt.
- Zauschneria Californica
- Rhamnus crocea, very twiggy, 10 ft. h., several stems clustered.
- Eriodictyon glutinosum Bth.
- Quercus lobata, 13 ft. 3 in. in girth at 5 ft. (Deer Flat)
- Quercus chrysolepis, 2300 ft.
- Aesculus Californica
- Quercus Wislizenii, brush at 3300 ft.
- Cercocarpus parvifolius Nutt.
- Aplopappus linearifolius
- Lupinus albifrons, axes of last years racemes recurving and whip-like, hardening, finally shredding away as the stem grows out beyond them.

## Vacaville, 1898.

- Valley Oak and wind. This is a tree of the alluvial valley soils, par excellence; even where a tree struggles out on to the adobe it is too ill-fed to compete in size with those of the rich loam. Remember the well-fed stately trees of the Alamo creek banks, and a lone tree standing out in the field at Williams', showing every mark of being a trade-wind blown tree. Not robust enough to resist the trades. The trees on the Araquipa Hill tops windblown - trees on the n. East slope in whatever situation usually not so.



## Berkeley, Oct. 1898.

- Umbellularia californica, fruiting finely this year, never saw a tree so loaded as an individual at bridge in Strawberry Cañon, Mink ranch road. As many as six drupes in a cluster. On my recent visit to Mt. Diablo, Mitchell Cañon, I saw fine large drupes 1¼ inches long.

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- Alder, 180 ft. below surface, artesian well, Gilroy Ranch, Spreckles Sugar Co. - Fred. Hermann.

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Vacaville, 1898.

- Weeds.

Glycyrrhiza - in orchards, green in August.

Sida hederacea - in orchards, reproduces by root stocks, never seeds.

Asclepias Mexicana Kaw.

Lupinus formosus.

Centaurea, Yellow, strays into cultivated fields (C. solstitialis).

Centaurea, Blue (Calcitrapa) does not go into cult. fields.

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- Cont. from p. 175.

San Leandro Cañon near Redwood Peak in the Oakland Hills, that is in Sequoia sempervirens territory! But Almus (oregana) rubra is the tree of the Sequoia sempervirens belt! and is found on west slope of Oakland Hills also and in Strawberry Cañon.



New Haven, Dec. 1896.

- called on W. H. Brewer at his study, Yale Campus. Piled high with all sorts of things, newspapers for clippings with a peach-basket file; Watkins photographs of California trees. At home, where he took me to dinner, he had a string which had measured the girth of a big tree. He started around through parlor, dining and sitting rooms in a circuit to show how big it was.

Mill Valley, Nov. 7, 1898.

- First Circle of Redwoods = 45 x 51 ft, with 45 trees not counting the smaller ones. Circumferences of the larger trees in feet and tenths: 6; 5.3; 4.6; 5.2

Also 14 stumps of previous generation. Stumps far from perfect now. Diameter in feet and tenths: 3.7; 3.8; 3; 2.3; 2.3; 3.6; 2; 3; 4.3; 4.1; 4.2; 4.8; 1.9; 2.7.

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Trunk with hollow centre, one side gone; 3 young trees around it, at 5 ft. from ground circumferences = 8 ft; 9 ft.; 6 ft.

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Second and third growth in Mill Valley: 30 to 70 ft. high.



Vacaville, Dec. 26, 1899.

- Quercus lobata in full foliage still, the leaves just falling from the tree at Little Oak. The only expression of lightness or color that I ever observed about this sober stately tree I saw today: the tree at Williams', one of the largest ones, stood out on an afternoon against the dark background of the Jewett grove of Eucalyptus – almost golden in the cold afternoon light of the winter sun!!!

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Apples – Watsonville, $150 to $300 per acre for fruit (owner to till and prune only). Marketed after other apples have disappeared – keeping qualities – F. A. Hermann.

## Vacaville, Dec, 1898.

- Buckeye, fringing the bases of low hills, beginning where the plains rises sharply to the easy ascent, never on the plains. Their barren branches almost as white as skeletons, standing like or almost like ghosts against the dull brown or dark soil of the foothills, which have been eaten clean by cattle in the long dry summer. Whiteness of the trees suggests skeletons huddled together in the hollows on north or east slopes.

- Quercus Douglasii, now losing its leaves which are turned to a yellowish brown, shining reddish or even golden brown in the winter sunlight.



## San Francisco.

- Soap Lake = "Alkali Valley" of my "calendar" - near San Felipe. So called, says Fred Hermann, because of the Soap Plant which grows about it. By others said to be because of a mill where wool of sheep was washed. - Very alkaline. Soil alkaline down to 24 feet. Speckles people trying to drain and reclaim it. Canal put in by Miller. Country in direction of San Benito and Panoche very broken, subject to great erosion, landslides. Desolation in summer. White hills, the vegetation bleached white. [- about 1899]

## Berkeley, 1899.

- "Women Scientists of San Francisco", S.F. Call, Sunday, July 25, 1897.
- Funston and his Death Valley trip, S. F. Call, about May 12, 1899.
- St. John's River, verse, about May 25, Argonaut, 1899.
- Curiosities of Botanical Literature "With the idea of finding sufficient characters to separate Kuhnistera of Lamarck from Petalostemon of Michaux, I have spent some time in hunting up the literature of the subject. — A.A. Heller, in Bull. Torr. Club. 23; 119, Apr. 1896.



## Berkeley, 1898.

- C. C. Purdy. Has sent 4 million bulbs to Europe, $40,000 to $50,000, value, since 1877.

400,000 bulbs in his yard at this time.

Says blue adobe causes albinos, Erythraeas, Collinsias, etc. Brodiaea laxa, wet ground form propogates 6 to 7 times the offsets of dry ground form. No two sets of Tritelia ixioides alike.

- Dated Mar. 17, 1898.

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- Quercus Wislizenii A.DC. Alamo Creek near Capt Chinn's place. Staminate flowers, stamens mostly 6, frequently 7, also sometimes 5. Calyx very shallowly lobed - lobes about 5.

## Cambridge, 1896.

- Robinson, B.L. Has a humorous fancy that pleases me. One day thus: "Solomon couldn't have known much about the Polypets: He knew all the plants from the Cedar of Lebanon to the hyssop that grows on the wall. However if we take the Engler and Prantl sequence it would give him a wider range of ~~authorship~~ knowledge. Anyway he couldn't have known anything about the Compositae!" — Oct. 1896, Cambridge.



## Cambridge, 1896.

- Sir Joseph Hooker, in a letter to Mrs. Gray: "Have finished the Flora of India; am looking about for a new piece of work; friends urge me to write a work on geographical botany; but am reluctant because years since I have allowed my power to read German to slip away from me," etc

Illustrates the provincialism of the British. Dr. Robinson said young men he met in London (working on anatomy of plants) made no bones of not reading German!!

— Cambridge, Oct. 31, 1896.

# Berkeley

— Bolander, H.N. "We now have it- [Allotropa virgata] from Mr. Bolander (in the usual excellent specimens which he is accustomed to prepare), collected in Mendocino Co., vii, 368, Proc. Am. Acad.

— E.L. Greene. Referring to a piece of property which belonged to me and which lay on a table removed from my desk by the width of the room in South Hall - being a neat rule, something likeley to be craved!: "Is that yours? Well, you had better take it home"! (that is to my own desk or table). He often tickled your fancy in that way.



# 1899

Cal. Acad. Sci.

— Bloomer, H.G. There are few Bloomer plants in the Academy Herbarium now, but a neatly written catalogue shows how many there once were. I take the following entries:

— Romanzovia Sitchensis - Crystal Spring.
— Pentstemon centranthifolius - Antioch.
— Tonella collinsioides - Ukiah, Bolander.
— Castilleia sp. Southern Cal. Dr. Stebbins.
— Hypochaeris glabrata - Clay Banks, North Beach, Bloomer.
— Malacothrix incana, Antioch, Kellogg & Bloomer.
— Lygodesmia spinosum, mt. Davidson. Bloomer.
— Hieracium Brewri, Red mt. Bolander and Harford.
— Gutierrezia Californica. Hills of Oakland, Bloomer.
— Cornus pubescens, Lobos Creek.
— Amelanchier Canadensis. Paper Mill Creek.
— Ceanothus mollis. Fruit Vale. Kellogg

## Cambridge, 1896.

– At the Madison meeting a group of botanists were in argument. At last, inquiringly, after some discussion and quite to the point – Hollick I think it was – "What do you believe in Professor Greene? And sententiously Professor Greene: "The Pope!" "Now come, Professor Greene, you don't mean that?" But no answer was vouchsafed. I can imagine the way in which Prof. G. smiled in his sleeve. I had the story from B. L. Robinson, October 1896. Cambridge, Mass.



## Columbia College, 1896.

– Greene's Potentilla species. In response to a request from Rydberg, for his types Greene wrote:

P. lactea strange to say I never had except in fragment, but a most trustworthy flower painter* of Fresno Co. showed me a picture, drawn and colored on the spot, which gave me the chief characters.

Yours Sincerely
E. L. Greene

Above had at Columbia College in 1896

* = Mrs. L. R. Peckinpah.
[A.

# Gray Herbarium

Curiosities of Botanical Literature.

- Rydberg, Notes on Potentilla, Bull. Torr. club. 1896. June. "Fl. Frans" !

- Nelson, Fl. Wyoming, p. 104. Footnote. "Contrib Natl. Herb."

- "To be able at an early period of the study to commence the arrangement of plants by their flowers, and to distinguish them from each other, as well as to contemplate their structure and mutual relation is a study far more amusing and useful than a mere attention to the names and characters of the unimportant and unattractive parts of the vegetable:- Nuttall, Introduction to Sys. and Physiolog. Bot.



# 1896.

- Greene. There seem to be a good many mss names of Greene in Gray Herb. For instance: "Lasthenia perfoliata Greene. Salt Marsh in San Mateo Co. May 11, 1896. E.L. Greene" Label in Greene's hand. Name not published; looks like a good var. = ["=glabrata ? Watson"] - W.L.J., Gray Herb. 1896.

- Clarke, F.L. was much interested in ferns, found some new ferns; also of other plants and of insects. Sent collection to Berlin, Jardin des Plantes, Kew. Knows Behr, Brandegee, Harkness, McLaren. - over -

# Berkeley

– Clarke, Capt. F. L., Veterans Home, Yountville, cousin of Ward of Rochester, Returned from Hawaiian Islands 8 yrs ago. Directed into botanical channels by Hillebrand, A correspondent of Gray, Eaton and Baker.

Hillebrand, a physician who came to the islands for his health. Government sent him abroad to collect living plants for the Hawaiian Islands – brought back a ships load. No preparations had been made to receive them. Government paid him and told him to put the plants in his own garden. Consequently had a fine collection of exotics. Later he went to Canary Islands which prolonged his life somewhat.

See prev. page.



# 1897-99.

– Trichostemma lanatum = Black Sage by Mrs. Blochman. In her region the White Sage is Audibertia polystachya.
Other names from her are:
Beach Apple = Mesembryanthemum aequilaterale.
Hog Onion = Brodiaea capitata.

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– Cat's Ears, Pussy Ears, Trinity Flower, Fairy Lanterns, all for Calochortus pulchellus. Latter tip from Mrs. D. O. Hunt, Apr. 30, 1897.

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– Hansen, Geo. Born Apr. 15, 1863. At Hildesheim, Province of Hanover. Educated at Royal Horticultural College at Potsdam. Came to America, July, 1887.

# Berkeley

- Redwoods back of Oakland - Mr. H. D. Moodey had the biggest saw-mill of several. He cut the lumber for the first house built of redwood from the Oakland Hills. Moodey was a '49er
- Watson, Sereno. Apparently seldom labled up the plants he wrote about. The specimen meant may be determined in various ways, often by number given, as Bolander, so and so. Cicuta Bolanderi, type, is marked "Cicuta virosam and maculatum" in Gray's hand and below in very faint pencil is Watson's note "C. Bolanderi, n. sp. S.W.". — Gray Herbarium, 1896.



# 1897.

- Curiosities of Bot. Literature -

Prof. Greene's curiously indirect manner of reducing his Delphinium cognatum to D. Andersonii. Pitt, iii, 94.

"Dr. Watson was misinformed" - Prof. Greene was the informant and had forgotten.

- Mrs. R. F. Bingham, Santa Barbara, Calif.

- Curiosities of Botanical Literature.

Coulter, Fl. Western Tex. Plate. Thelypodium.

Heller. Type locality, Virginia and Africa.

- Parry, C.C. was at Stockton, Calif., Sept. 1881.

- Harlweg. Cf. Journ. Lond. Hort. Soc. iv, 111. Plants coll. at Sonoma. Conifers, p. 211, l.c.

  Cf. p. 77. also p. 222. New plants raised from seed not listed in Benth. Pl. Hartweg. but described by Lindley. Cf. p. 292.

- H & E. "It is true Haenke and also Nee were at Monterey in 1791" - Greene, Pitt, i, 289.
- Wyeth. Sketch and Portrait, 85, 835 (1842). [This note copied as ~~filed~~ incompletely on a card slip of my own made years ago]
- W.G. Wright, proprietor Planing Mill & Sash Factory, May 14, 1877. as shown on letter head of that date to Sereno Watson - from San Bernardino.



- G. H. Collier, List of Trees of Oregon. Eugene City, Mar. 1, 1882.
- Yales, L.G. Channel Islands, 9th Annual Rep. State Mineralogist.
- Durand & Hilgard - their sets are at Paris.
- Greene's Bay Region Manual the Edition was 1000 copies and the cost $900.00.
- Greene; [Purdy's comment on: "I tried to help Prof. Greene but he treated me like a dog. If you do not accept him absolutely he is your enemy." - Fide W.A. Setchell, Mar. 25, 1898.

- Cronkhite, Dr. H.M., U.S.A. Geological Survey of California, 1864. Coll. ..... in Klamath Valley, S. Oregon. Alt. 4200 ft. The above printed on label in Gray Herb. - sheet of Gayophytum diffusum.
- E.L. Greene was on the "Rio Cienega, A.T., March, 1877." Label on Eulobus Californicus, Gray Hb.
- Wossensensky. See Frederic Lüké, Voyage atour du Monde. St. Petersburg, 1836.
- Lembert, J.B. Sent spms. from Yosemite Valley in 1893 to Professor Greene. Labeled as Yosemite, when in reality from far above, in some cases at least, as Grezia Muirii, Mt. Conness, Aug. 1893.



- What is the Ironwood of Santa Catalina*? And Greasewood?

* = Lyonothamnus floribundus.

- Mr. Greggson, President Santa Barbara Society Nat. Hist.
- O. C. Griffith, New Eden, Howell Mt.
- F. Sutpheus, Witch Creek, botanist.



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